



Digitized by the Internet Archive
in 2012 with funding from
CARLI: Consortium of Academic and Research Libraries in Illinois

<http://archive.org/details/annualannounceme63unse>

The University of Chicago

FOUNDED BY JOHN D. ROCKEFELLER

BULLETIN OF INFORMATION

VOL. V

JUNE, 1905

NO. 4

SIXTY-THIRD ANNUAL ANNOUNCEMENT OF RUSH MEDICAL COLLEGE

CONTAINING THE
BULLETIN OF THE MEDICAL COURSES
OF THE UNIVERSITY OF CHICAGO

TABLE OF CONTENTS

History, Plan of Government, and Location	3	The Work of the Medical Course for the Fresh-	26
Calendar of Rush Medical College	4	man and Sophomore Years	26
Calendar of the University of Chicago	5	Arrangement of Courses for six Quarters	27
Board of Trustees of Rush Medical College	6	The Work of the Clinical Years	27
Representing the University	6	Elective and Optional Courses	27
The Faculty of Rush Medical College	6	Fifth Year	28
Fellows appointed for 1905-6	11	Department of Anatomy	28
Extra-Mural Instructors	11	Department of Zoölogy	32
Officers of Administration at the University of		Department of Neurology	34
Chicago	11	Department of Physiology	36
The Administrative Board of Medical Affairs at		Department of Chemistry, Materia Medica, and	
the University of Chicago	12	Toxicology	38
Introductory Statement	12	Department of Therapeutics and Preventive Medicine	43
Requirements for Admission	14	Department of Pathology and Bacteriology	44
The Curriculum	14	Department of Medicine	47
General Regulations	15	Department of Surgery	51
Requirements for Admission to the Medical		Department of Obstetrics and Gynecology	53
Courses	16	Department of Diseases of the Chest, Throat, and Nose	54
Admission to Advanced Standing	19	Department of Ophthalmology and Otology	56
Requirements for Graduation	19	Department of Skin and Venereal Diseases	57
General Information for Students entering the		General Lectures and Optional Courses	58
Freshman and Sophomore Classes at Rush Med-		Laboratories, Equipment, and Libraries:	
ical College	20	The Hull Biological Laboratories	59
Routine of Entrance	20	The Kent Chemical Laboratory	60
Fees for Matriculation, Tuition, Deposits, and		The Libraries	60
Apparatus	20	Buildings, Equipment, and Hospital Facilities at	
Rooms, Board, and General Expenses	22	Rush Medical College	61
General Information for Students entering the		Fellowships, Hospital Internes, and Prizes	62
Junior and Senior Classes at Rush Medical		Occupants of Internships	63
College	22	Fellowships and Scholarships at the University of	
The Quarter System	24	Chicago	64
Definition of Major and Minor	24	Medical Societies	66
Graduate Courses in Medicine for Physicians and		Alumni Association	66
Advanced Students	24	Graduates for the Session of 1904-5	67
The Degrees of S.B., A.B., and Ph.B.	25	Matriculates for the Session of 1905-6	68
		Summary	76

PUBLISHED FOUR TIMES A YEAR
THE UNIVERSITY OF CHICAGO
FIFTY-EIGHTH STREET AND ELLIS AVENUE
CHICAGO, ILL.

HISTORY, PLAN OF GOVERNMENT, AND LOCATION

Rush Medical College is one of the oldest institutions of learning in the Northwest, having been chartered by a special act of the Legislature of the state of Illinois in February, 1837. It was founded by the late Daniel Brainerd, who was its first president. The first course of lectures was delivered in the second story of the frame building on Clark Street, near Randolph, in 1843. In 1844 a college building was erected at the corner of Dearborn Avenue and Indiana Street, a structure which was remodeled and enlarged in 1855. In 1867 a larger building was erected on the site of the old one. This edifice was destroyed in the great fire of 1871, and for three years the College occupied a temporary amphitheater in the grounds of the Cook County Hospital, then located at Arnold and Eighteenth Streets. In 1875 the present Clinical Building was erected, and in 1893 a Laboratory Building, which greatly increased the facilities for practical instruction, was erected on the south side of Harrison Street, opposite the Clinical Building. The facilities for clinical instruction were largely increased a year ago by the addition of the Senn Building, seven stories in height, adjoining the Clinical Building on the east. In 1887 the College became the Medical Department of the Lake Forest University, retaining, however, its autonomy. This relation was dissolved by mutual consent in April, 1898, and in the same month the present affiliation with the University of Chicago was established. In 1883 the Presbyterian Hospital, adjoining the College, was established, and the building then erected for the hospital was subsequently enlarged by the addition of the Daniel A. Jones Memorial. Rush Medical College is one of the several institutions officially recognized by the Royal Colleges of Physicians and Surgeons of London, England.

GOVERNMENT

The government of the College is vested in a "perpetual Board of Trustees," distinct from the teaching force of the College, which was constituted by a special act of the General Assembly of Illinois, in February, 1837, and of which the Governor of the state, the Lieutenant-Governor, and the Speaker of the House of Representatives are members *ex officio*.

This Board is responsible to the state for the careful management of the financial and educational interests of the College, and for the discipline of its students.

AFFILIATION

By the terms of affiliation with the University of Chicago, the Board of Trustees is composed of members not belonging to the teaching force of the College. This Board assumes the financial management and appoints the Faculty, but delegates to the latter the control of the educational work subject to the rules of the University and the approval of the Trustees. The affiliation thus assures the maintenance of a high order of instruction and a steady advance in modern educational methods. The University offers three Fellowships to graduates of the College, yielding the University fees and entitling the holders to the privileges of its biological laboratories. It provides for granting the degree of Bachelor of Science to students of the College who have had suitable preliminary education and who comply with the University regulations established for that degree. The courses of the first two years of the medical curriculum are offered at the University only.

LOCATION

The College is situated on West Harrison Street, between Hermitage Avenue and Wood Street, and can be reached by any of the trains of the Metropolitan Elevated Railway, the Marshfield Avenue station of which is three blocks east of the College; by the Ogden Avenue and Van Buren Street electric lines, which cross Wood Street two blocks north of the College; or by the Harrison Street electric car line, which runs on West Harrison Street.

The telephone number is West-113.

Address all correspondence to

RUSH MEDICAL COLLEGE,
CHICAGO, ILLINOIS

LOCATION OF THE UNIVERSITY OF CHICAGO

The University is situated on the Midway Plaisance, between Ellis and Lexington Avenues, and can be reached by the Cottage Grove Avenue cable cars (from Wabash Avenue), by the South Side Elevated Railway, by the Illinois Central Railroad to South Park Station, or by the Sixty-third Street electric cars from the Englewood railway stations.

A Baggage Express Company and the Western Union Telegraph Company have offices at the University. The telephone number of the University is Hyde Park-426.

CALENDAR OF RUSH MEDICAL COLLEGE

1905

June 17, Saturday	The Summer Quarter begins
July 1, Wednesday	The fiscal year of the College begins
July 4, Tuesday	A holiday
July 28, Friday	Second Term, Summer Quarter begins
August 31, Sept. 1, Thursday, Friday	Quarterly Examinations
Sept. 1, Friday	Summer Quarter ends
Sept. 1-30	Summer Recess
Sept. 21, 22, 23, Thursday, Friday, Saturday	Examinations for Admission
Oct. 2, Monday	Autumn Quarter begins
Nov. 13, Monday	Second Term, Autumn Quarter begins
Nov. 30, Thursday	Thanksgiving day — a holiday
Dec. 20, 21, 22, Wednesday, Thursday, Friday	Quarterly Examinations
Dec. 22, Friday	Autumn Quarter ends
Dec. 23-31	Quarterly Recess

1906

Jan. 2, Tuesday	{ Winter Quarter begins Matriculation and Registration of new students
-----------------	--

Feb. 12, Monday	Second Term, Winter Quarter begins
Feb. 22, Thursday	Washington's Birthday — a holiday
March 22, 23, 24, Thursday, Friday, Saturday	Quarterly Examinations
March 24, Saturday	Winter Quarter ends
March 24-31	Quarterly Recess
April 2, Monday	Spring Quarter begins
May 10, Thursday	Second Term, Spring Quarter begins
May 30, Wednesday	Decoration Day — a holiday
June 12, 14, 15 Tuesday, Thursday, Friday	Quarterly Examinations
June 11, Monday	Special Clinics for the Alumni Association; Class-Day Exercises of the Graduating Class
June 12, Tuesday	Special Clinics; Annual Business Meeting of the Alumni Association
June 13, Wednesday 3:00 P. M. 6:00 P. M.	Graduating Exercises Annual Reception and Dinner of the Faculty and Alumni
June 15, Friday	Spring Quarter ends

CALENDAR OF THE UNIVERSITY OF CHICAGO

THE MEETINGS OF THE BOARD OF TRUSTEES ARE HELD ON THE SECOND TUESDAY OF EACH MONTH

1905

June 9	Friday	JUNIOR COLLEGE DAY
June 10	Saturday	ALUMNI DAY
June 12	Monday	CLASS DAY
June 13	Tuesday	THE SUMMER CONVOCATION
June 14	Wednesday	{ QUARTERLY EXAMINATIONS
June 15	Thursday	
June 16	Friday	
June 16	Friday	SPRING QUARTER ends
June 17	Saturday	SUMMER QUARTER begins
July 4	Tuesday	INDEPENDENCE DAY: a holiday
July 27	Thursday	{ EXAMINATIONS for the First Term of the Summer Quarter
		{ FIRST TERM of Summer Quarter ends
July 23	Friday	SECOND TERM of Summer Quarter begins
Sept. 1	Friday	{ EXAMINATIONS for Second Term of the Summer Quarter
		{ THE AUTUMN CONVOCATION
		{ SECOND TERM of Summer Quarter ends
Oct. 2	Monday	AUTUMN QUARTER begins
Nov. 23 (30?)		THANKSGIVING DAY: a holiday
Dec. 19	Tuesday	THE WINTER CONVOCATION
Dec. 20	Wednesday	{ QUARTERLY EXAMINATIONS
Dec. 21	Thursday	
Dec. 22	Friday	
Dec. 22	Friday	AUTUMN QUARTER ends

1906

Jan. 2	Tuesday	{ WINTER QUARTER begins
		{ MATRICULATION and REGISTRATION of incoming students
Feb. 12	Monday	LINCOLN'S BIRTHDAY: a holiday
Feb. 22	Thursday	{ WASHINGTON'S BIRTHDAY: a Holiday
		{ THE ANNUAL CONTEST in Oratory
Mar. 18	Sunday	CONVOCATION SUNDAY
Mar. 19	Monday	SPRING MEETING of the <i>University</i> <i>Congregation</i>
Mar. 20	Tuesday	SPRING CONVOCATION
Mar. 21	Wednesday	{ QUARTERLY EXAMINATIONS
Mar. 22	Thursday	
Mar. 23	Friday	
Mar. 23	Friday	WINTER QUARTER ends
Mar. 24-31		QUARTERLY RECESS
April 2	Monday	{ SPRING QUARTER begins
		{ MATRICULATION and REGISTRATION of incoming students
May 30	Wednesday	MEMORIAL DAY: a holiday
June 8	Friday	JUNIOR COLLEGE DAY
June 9	Saturday	ALUMNI DAY
June 11	Monday	{ CLASS DAY
		{ SUMMER MEETING of the <i>University</i> <i>Congregation</i>
June 12	Tuesday	THE SUMMER CONVOCATION
June 13	Wednesday	{ QUARTERLY EXAMINATIONS
June 14	Thursday	
June 15	Friday	
June 15	Friday	SPRING QUARTER ends

BOARD OF TRUSTEES OF RUSH MEDICAL COLLEGE

FRANK B. TOBEY, *President*ALBERT A. SPRAGUE, *Vice-President*CHARLES L. HUTCHINSON, *Treasurer*THOMAS W. GOODSPEED, *Secretary*

WILLIAM R. HARPER

HERMAN H. KOHLSAAT

JAMES H. ECKELS

ERNEST A. HAMILL

FREDERICK A. SMITH

ANDREW McLEISH

JESSE A. BALDWIN

JOHN J. GLESSNER

HIS EXCELLENCY CHARLES S. DENEEN, *Governor*THE HON. LAURENCE Y. SHERMAN, *Lieutenant-Governor*_____, *Speaker of the House of Representatives* } *ex officio*

REPRESENTING THE UNIVERSITY

WILLIAM RAINEY HARPER, PH.D., D.D., LL.D., *PRESIDENT*ALBION W. SMALL, PH.D., *DIRECTOR OF THE AFFILIATED WORK OF THE UNIVERSITY*

THE FACULTY OF RUSH MEDICAL COLLEGE

NORMAN BRIDGE, A.M., M.D., *Emeritus Professor of Medicine.*WALTER STANLEY HAINES, A.M., M.D., *Professor and Head of the Department of Chemistry, Materia Medica, and Toxicology, Rush Medical College.*JAMES NEVINS HYDE, A.M., M.D., *SECRETARY OF THE COUNCIL OF ADMINISTRATION AND OF THE FACULTY, Professor and Head of the Department of Skin, Genito-Urinary, and Venereal Diseases, 100 State Street.*NICHOLAS SENN, M.D., PH.D., LL.D., C.M., *NICHOLAS SENN Professor and Head of the Department of Surgery, and Professor of Surgery in the University of Chicago, 100 State Street.*ARTHUR DEAN BEVAN, M.D., *Professor of Surgery, 100 State Street.*EPHRAIM FLETCHER INGALS, A.M., M.D., *COMPTROLLER, Professor and Head of the Department of Diseases of the Chest, Throat, and Nose, 34 Washington Street.*DANIEL ROBERTS BROWER, A.M., M.D., LL.D., *Professor of Nervous and Mental Diseases, 34 Washington Street.*JOHN MILTON DODSON, A.M., M.D., *DEAN OF STUDENTS, Professor of Medicine (Diseases of Children), 34 Washington Street.*LUDVIG HEKTOEN, M.D., *Professor and Head of the Department of Pathology, Rush Medical College.*FERDINAND CARL HOTZ, M.D., *Professor and Head of the Department of Ophthalmology and Otology, 34 Washington Street.*HENRY BAIRD FAVILL, A.B., M.D., *INGALS Professor and Head of the Department of Therapeutics, 100 State Street.*FRANK BILLINGS, M.S., M.D., *DEAN OF THE FACULTY, Professor and Head of the Department of Medicine and Professor of Medicine in the University of Chicago, 100 State Street.*JOHN CLARENCE WEBSTER, M.D., F.R.C.P. (Edin.), *Professor and Head of the Department of Obstetrics and Gynecology, 100 State Street.*LEWELLYS FRANKLIN BARKER, M.B., *Professor and Head the Department of Anatomy, University of Chicago.*CHARLES OTIS WHITMAN, PH.D., LL.D., *Professor and Head of the Department of Zoölogy, 223 E. Fifty-fourth Street.*

- ALBERT ABRAHAM MICHELSON, Ph.D., Professor and Head of the Department of Physics, 220 E. Sixtieth Street.
- HENRY HERBERT DONALDSON, Ph.D., Professor and Head of the Department of Neurology, 5740 Woodlawn Avenue.
- JOHN ULRIC NEF, Ph.D., Professor and, in the University, Head of the Department of Chemistry, 6018 Stony Island Avenue.
- JAMES BRYAN HERRICK, A.B., M.D., Professor of Medicine, 103 State Street.
- GEORGE NEIL STEWART, D.Sc., M.D., Professor and Head of the Department of Physiology, University of Chicago.
- ALEXANDER SMITH, Ph.D., Professor of General Chemistry, University of Chicago.
- MARION TALBOT, A.M., Professor of Household Administration and Dean of Women, University of Chicago.
- JULIUS STIEGLITZ, Ph.D., Professor of Chemistry, University of Chicago.
- ALFRED CLEVELAND COTTON, A.M., M.D., Professor of the Diseases of Children, 1485 Jackson Boul.
- JOHN BENJAMIN MURPHY, A.M., M.D., LL.D., Professor of Surgery, 100 State Street.
- DAVID WILSON GRAHAM, A.M., M.D., Clinical Professor of Surgery, 34 Washington Street.
- HON. HENRY VARNUM FREEMAN, LL.B., Professorial Lecturer on Medical Jurisprudence, 5760 Woodlawn Avenue.
- WILLIAM THOMAS BELFIELD, M.D., Associate Professor of Surgery, 100 State Street.
- TRUMAN WILLIAM BROPHY, M.D., M.D.S., LL.D., Associate Professor of Dental Surgery and Pathology, 31 Washington Street.
- FRANK HUGH MONTGOMERY, M.D., Assistant Secretary of the Faculty, Associate Professor of Skin, Genito-Urinary, and Venereal Diseases, 100 State Street.
- JOHN EDWIN RHODES, A.M., M.D., COLLEGE HISTORIAN, Associate Professor of Diseases of the Chest, Throat, and Nose, 100 State Street.
- ALBERT PRESCOTT MATHEWS, Ph.D., Associate Professor of Physiological Chemistry, University of Chicago.
- EDWIN OAKES JORDAN, Ph.D., Associate Professor of Bacteriology, 5720 Woodlawn Avenue.
- EDWIN RAYMOND LECOUNT, M.D., Associate Professor of Pathology, Rush Medical College.
- FRANK RATTRAY LILLIE, Ph.D., Associate Professor of Zoölogy and Embryology, 5801 Monroe Avenue.
- ROBERT RUSSELL BENSLEY, A.B., M.B., Associate Professor of Anatomy, University of Chicago.
- EMANUEL JOHN SENN, M.D., Associate Professor of Surgery, 100 State Street.
- JEROME HENRY SALISBURY, A.M., M.D., Assistant Professor of Chemistry, 982 W. Adams Street.
- ALBERT IRVING BOUFFLEUR, M.D., S.B., Assistant Professor of Emergency Operations, 100 State Street.
- GEORGE HOWITT WEAVER, M.D., Assistant Professor of Pathology, 535 Washington Boul.
- BIRD McPHERSON LINNELL, A.B., M.D., Assistant Professor of Physiology and of Medicine, 100 State Street.
- JACOB ALLEN PATTON, S.B., M.D., Assistant Professor of Materia Medica and of Chemistry and Instructor in Genito-Urinary Surgery, 100 State Street.
- CASSIUS DOUGLAS WESCOTT, M.D., Assistant Professor of Ophthalmology, 31 Washington Street.
- WILLIAM HAMLIN WILDER, M.D., Assistant Professor of Ophthalmology, 105 State Street.
- BERTRAM WELTON SIPPY, M.D., Assistant Professor of Medicine, 100 State Street.
- CHARLES JOSEPH WHALEN, M.D., LL.B., Assistant Professor of Diseases of the Chest, Throat, and Nose, 34 Washington Street.
- ISAAC ABT, M.D., Assistant Professor of the Diseases of Children, 4326 Vincennes av.
- HERBERT NEWBY MCCOY, Ph.D., Assistant Professor of Physical Chemistry, University of Chicago.
- HARRY GIDEON WELLS, M.D., Ph.D., Assistant Professor of Pathology, Dean in Medical Work, University of Chicago.
- DAVID JUDSON LINGLE, Ph.D., Assistant Professor of Physiology, 360 E. Fifty-first Street.
- PRESTON KYES, A.M., M.D., Assistant Professor of Anatomy (absent on leave).
- PALMER FINDLEY, M.D., Assistant Professor of Obstetrics and Gynecology, 100 State Street.
- JOSEPH L. MILLER, M.D., Assistant Professor of Medicine, 100 State Street.
- CHARLES AUBREY PARKER, M.D., Assistant Professor of Anatomy and of Surgery, Rush Medical College.
- JAMES CORNELIUS GILL, M.D., Assistant Professor of Therapeutics and Instructor in Medicine, 34 Washington Street.
- WILLIAM JOSEPH BUTLER, M.D., Assistant Professor of the Diseases of Children, 1487 Jackson Boul.
- SAMUEL ROBERT SLAYMAKER, A.B., M.D., Assistant Professor of Medicine, 100 State Street.
- JOSEPH ALMARIN CAPPS, A.M., M.D., Assistant Professor of Medicine, 100 State Street.

- FRANK SPOONER CHURCHILL, A.B., M.D., Assistant Professor of the Diseases of Children, 439 N. State Street.
- OTTO TIGER FREER, M.D., Assistant Professor of Diseases of the Chest, Throat, and Nose, 34 Washington Street.
- RUDOLPH WIESER HOLMES, M.D., Assistant Professor of Obstetrics and Gynecology, 412 N. State Street.
- HENRY FOSTER LEWIS, M.D., Assistant Professor of Obstetrics and Gynecology, 103 State Street.
- ALFRED SCHALEK, M.D., Assistant Professor of Skin, Genito-Urinary, and Venereal Diseases, 34 Washington Street.
- CHARLES EVART PADDOCK, M.D., Assistant Clinical Professor of Obstetrics, 103 State Street.
- GEORGE WASHINGTON HALL, A.M., M.D., Instructor in Medicine, 34 Washington Street.
- FRANK WEBSTER JAY, M.D., Instructor in Surgery, 103 State Street.
- JOHN CHARLES HESSLER, Ph.D., Instructor in Chemistry, 5756 Madison Avenue.
- JAMES ALEXANDER HARVEY, M.D., Instructor in Medicine, 100 State Street.
- ALBERT BELCHAM KEYES, M.D., Instructor in Obstetrics and Gynecology, 299 N. State Street.
- JOSEPH FRANCIS DOLAMORE, M.D., Instructor in Diseases of the Chest, Throat, and Nose, 5 Blue Island Avenue.
- GEORGE ABRAHAM TORRISON, M.D., Instructor in Diseases of the Chest, Throat, and Nose, 46 Alice Place.
- LAUDER WILLIAM JONES, Ph.D., Instructor in Chemistry, 573 E. Sixty-second Street.
- CHARLES MANNING CHILD, Ph.D., Instructor in Zoölogy, University of Chicago.
- BROWN PUSEY, M.D., Instructor in the Pathology of the Eye, 70 Madison Street.
- GEORGE E. SHAMBAUGH, M.D., Instructor in Otology, 100 State Street.
- DANIEL GRAISBERRY REVELL, A.B., M.B., Instructor in Anatomy, University of Chicago.
- HOWARD TAYLOR RICKETTS, A.B., M.D., Instructor in Pathology, University of Chicago.
- DEAN DEWITT LEWIS, A.B., M.D., Instructor in Surgery, 620 E. Fiftieth Street.
- NORMAN MACLEOD HARRIS, M.B., Instructor in Bacteriology, University of Chicago.
- WILLIAM LAWRENCE TOWER, S.B., Instructor in Embryology, University of Chicago.
- FRANK W. LYNCH, M.D., Instructor in Obstetrics, 147 E. Fifty-first Street.
- JOHN GORDON WILSON, A.M., M.B., Instructor in Anatomy, University of Chicago.
- BASIL C. L. HARVEY, A.B., M.B., Instructor in Anatomy, University of Chicago.
- EDWARD BUEL HUTCHISON, S.B., M.D., Instructor in Therapeutics, 5601 Monroe Avenue.
- JAMES WARREN VANDERSLICE, M.D., Instructor in Diseases of Children, 185 Washington Boulevard.
- GLENN MILTON HAMMON, M.D., Instructor in Diseases of the Chest, Throat, and Nose, 683 W. Adams Street.
- MORLEY D'ACOSTA BATES, M.D., Instructor in Diseases of the Chest, Throat, and Nose, 171 Warren Avenue.
- EMANUEL FRIEND, M.D., Instructor in Surgery, 3652 Indiana Avenue.
- KARL DOEPFNER, M.D., Instructor in Surgery, 100 State Street.
- LEIGH EWING SCHWARZ, M.D., Instructor in Ophthalmology, 103 State Street.
- OLIVER S. ORMSBY, M.D., Instructor in Skin, Genito-Urinary, and Venereal Diseases, 100 State Street.
- PETER BASSOE, M.D., Instructor in Pathology, Rush Medical College.
- WILLIAM LOUIS WILSON, S.M., M.D., Instructor in Medicine, 5654 Monroe Avenue.
- JOSEPHINE E. YOUNG, M.D., Instructor in the Diseases of Children, 71 Park Avenue.
- WILLIAM SENN, M.D., Instructor in Surgery, 100 State Street.
- BURTON JESSE SIMPSON, S.B., M.D., Instructor in Anatomy, University of Chicago.
- THEODORE TIEKEN, M.D., Instructor in Medicine, 810 Warren Avenue.
- PHILIP PETERSON SCHUYLER DOANE, M.D., Instructor in Surgery, 34 Washington Street.
- THOMAS B. FREAS, A.B., Curator of the Chemical Laboratories.
- CHARLES CLAUDE GUTHRIE, S.B., M.D., Instructor in Physiology, University of Chicago.
- LAWRENCE RYAN, M.D., Associate in Surgery, 1463 Jackson Boulevard.
- STEVEN EDWARD DONLON, M.D., Associate in Surgery, 1549 W. Twelfth Street.
- CHARLES E. BLOMGREN, M.D., Associate in Therapeutics and Preventive Medicine, 1450 Belmont Avenue.
- FRANK GRANT MASON, Ph.G., M.D., Associate in Chemistry, Materia Medica, and Toxicology, 96 State Street.
- ERNEST L. McEWEN, S.M., M.D., Associate in Skin, Genito-Urinary, and Venereal Diseases, 100 State Street.
- ALEXANDER FRANCIS STEVENSON, M.D., Associate in Medicine, 100 State Street.
- JULIA DYER MERRILL, M.D., Associate in the Diseases of Children, 683 N. Robey Street.

- WILLIS B. HOLMES, A.B., Associate in Chemistry, University of Chicago.
BENSON AMBROSE COHOE, A.B., M.D., Associate in Anatomy, University of Chicago.
EDWARD VAIL LAPHAM BROWN, S.B., M.D., Associate in Ophthalmology and Otolaryngology, 100 State Street.
E. W. RYERSON, A.B., M.D., Associate in Surgery, 100 State Street.
NATHAN PORTER COLWELL, M.D., Assistant to the Deans, Associate in Diseases of the Chest, Throat, and Nose, 34 Washington Street.
ISIDORE B. DIAMOND, M.D., Associate in Medicine, 294 W. Division Street.
HENRY E. BOETTCHER, M.D., Associate in Ophthalmology and Otolaryngology, 34 Washington Street.
WILLIAM A. QUINN, M.D., Associate in Genito-Urinary Surgery, 7 Blue Island Avenue.
ARTHUR ATWELL SMALL, M.D., M.R.C.S., L.R.C.P., Associate in Medicine, 575 E. Division Street.
ALEXANDER C. SOPER, JR., M.D., Associate in Medicine and in the Diseases of Children, 1632 Irving Park Boulevard.
WALLACE F. GROSVENOR, M.D., Associate in Obstetrics and Gynecology, 1156 Sheridan Road.
ANTON JULIUS CARLSON, Ph.D., Associate in Physiology, University of Chicago.
JAMES MURRAY WASHBURN, S.B., M.D., Associate in Medicine, 15 Bellevue Place.
MOSES MILTON PORTIS, M.D., Associate in Medicine, 34 Washington Street.
JOSEPH C. FRIEDMAN, M.D., Associate in Medicine, 4801 Indiana Avenue.
ROLLIN T. WOODYATT, M.D., Associate in Medicine, 103 State Street.
SAMUEL A. MATTHEWS, M.D., Associate in Pharmacology, University of Chicago.
EDWARD C. ROSENOW, M.D., Associate in Medicine, Rush Medical College.
JAMES MITCHELL NEFF, M.D., Associate in Surgery, 100 State St.
GEORGE F. THOMPSON, M.D., Associate in Surgery, 612 Jackson Boulevard.
CHARLES JOSEPH ROWAN, M.D., Associate in Surgery, 372 W. Adams Street.
SHINKISHI HATAI, Ph.D., Assistant in Neurology, University of Chicago.
ELIZABETH HOPKINS DUNN, A.M., M.D., Research Assistant in Neurology and Clinical Assistant in Nervous Diseases, University of Chicago.
JOSEPH F. SMITH, M.D., Assistant in Surgery, 100 State Street.
WILBUR E. POST, M.D., Assistant in Surgery, Rush Medical College.
VICTOR SCHRAGER, M.D., Assistant in Surgery, 100 State Street.
ALFRED D. KOHN, M.D., Assistant in Medicine, 103 State Street.
MICHAEL LEO GALLAGHER, M.D., Assistant in Medicine, 5602 Cottage Grove Avenue.
WILLIAM H. WALKER, M.D., Assistant in Medicine, 6309 Ingleside Avenue.
HUGO AD OLDENBORG, G.D., Assistant in Therapeutics, 92 State Street.
WALLACE CRAIG, A.B., Assistant in Zoology, University of Chicago.
WILLIAM L. MACBRIDE, M.D., Assistant in Skin and Venereal Diseases, 100 State Street.
HERBERT GAMES VAUGHAN, M.D., Assistant in Chemistry, 410 N. Cuyler Avenue, Oak Park.
ISAAC J. FRANKLIN, M.D., Assistant in Diseases of Children, 293 W. Division Street.
BATHENA COONE, M.D., Assistant in Nervous and Mental Diseases, 440 E. Fifty-seventh Street.
R. E. GREEN, M.D., Assistant in Medicine, 550 Wilson Avenue.
A. C. McCLANAHAN, M.D., Assistant in Medicine, 160 Evanston Avenue.
JOSEPH H. OTRADOVEC, M.D., Assistant in Medicine, 7235 Union Avenue.
WILLIAM R. STEPHENS, M.D., Assistant in Medicine, 1071 N. Clark Street.
CHARLES O. HOIBY, M.D., Assistant in the Diseases of Children, 242 Grand Avenue.
CAROLINE HEDGER, M.D., Assistant in the Diseases of the Chest, Nose, and Throat, 4630 Gross Avenue.
S. KRUMHOLZ, M.D., Assistant in Nervous and Mental Diseases, 237 W. Twelfth Street.
A. E. BERTLING, M.D., Assistant in Genito-Urinary Surgery, 477 S. Ashland Avenue.
D. F. GRASSE, M.D., Assistant in Genito-Urinary Surgery, 329 W. Van Buren Street.
ROBERT H. HERBST, M.D., Assistant in Genito-Urinary Surgery, 517 Dearborn Avenue.
CAREY CULBERTSON, M.D., Assistant in Obstetrics, 687 W. Monroe Street.
F. I. BROWN, M.D., Assistant in Otolaryngology, 2340 N. Forty-second Avenue.
HUGH McGUIGAN, S.B., Assistant in Physiological Chemistry, University of Chicago.
ALBERT WOELFEL, M.D., Assistant in Physiology, University of Chicago.
THOMAS MATHESON WILSON, S.M., Assistant in Physiology, University of Chicago.

- G. MILTON HALL, M.D., Assistant in Pathology, Rush Medical College.
EDITH E. BARNARD, S.B., Assistant in Quantitative Analysis, University of Chicago.
OSCAR ECKSTEIN, Sc.D., Research Assistant in Chemistry, University of Chicago.
REUBEN MYRON STRONG, Assistant in Zoölogy (Summer Quarter, 1904), University of Chicago.
MARY HEFFERAN, Ph.D., Assistant and Curator of the Bacteriological Museum, University of Chicago.
WILLIAM IRVING, Mechanical Assistant in Physiology, University of Chicago.
THOR ROTHSTEIN, A.B., M.D., Assistant in Mental and Nervous Diseases, 96 State Street.
HENRY HIGGINS LANE, A.M., Laboratory Assistant in Zoölogy, University of Chicago.
VICTOR ERNEST SHELFORD, S.B., Laboratory Assistant in Zoölogy, University of Chicago.
ELLIOT SNELL HALL, Ph.D., Research Assistant in Chemistry.
ROBERT WILHELM HEGNER, S.M., Laboratory Assistant in Zoölogy, University of Chicago.
KATASHI TAKAHASHI, Technical Assistant in Neurology, University of Chicago.
WILFRED HAMILTON MANWARING, M.D., Assistant in Pathology (Summer Quarter, 1905) University of Chicago.
RAGNHILD GULBRANSEN, Technical Assistant in Pathology, University of Chicago.
ROBERT J. GAY, M.D., Assistant in Therapeutics, Rush Medical College.
DANIEL R. BROWER, JR., M.D., Assistant in Medicine, 34 Washington Street.
JOHN B. ELLIS, M.D., Assistant in Ophthalmology and Otology, 103 State Street.
DAVID FISKE, M.D., Assistant in Ophthalmology and Otology, 100 State Street.
T. W. LEWIS, M.D., Assistant in Diseases of the Chest, Throat and Nose, 296 Winthrop Avenue.
ELMER L. KENYON, M.D., Assistant in Diseases of the Chest, Throat and Nose, 34 Washington Street.
STANTON A. FRIEDBERG, M.D., Assistant in Diseases of the Chest, Throat and Nose, 34 Washington Street.
JOHN LAURENCE JACQUE, M.D., Clinical Assistant in the Diseases of the Chest, Throat and Nose, 732 N. Leavitt Street.
JOHN CHARLES WEST, M.D., Clinical Assistant in the Diseases of Children, 745 Van Buren Street.
GRACE H. CAMPBELL, M.D., Clinical Assistant in the Diseases of Children, 838 W. Garfield Boulevard.
HANNAH LUELLA HUKILL, M.D., Clinical Assistant in Obstetrics and Gynecology, 103 State Street.
MARY O. PORTER, M.D., Clinical Assistant in Obstetrics and Gynecology, 1412 Jackson Boulevard.
I. RASMUSSEN, M.D., Clinical Assistant in Obstetrics and Gynecology, 458 S. Desplaines Street.
LORENZO N. GROSVENOR, M.D., Clinical Assistant in Ophthalmology and Otology, 34 Washington Street.
MARIE SCHMIDT, M.D., Clinical Assistant in Obstetrics and Gynecology, 1601 W. Twenty-second Street.
JOHN RITTER, M.D., Clinical Assistant in Diseases of the Chest, Throat and Nose, 170 Colorado Avenue.
SARA A. JANSEN, M.D., Clinical Assistant in Obstetrics and Gynecology, 181 W. Madison Street.
JOSEPH WELFELD, M.D., Clinical Assistant in Skin and Venereal Diseases, 727 Grand Avenue.
ROSALIE M. LADOVA, M.D., Clinical Assistant in Diseases of the Chest, Nose and Throat, 1045 E. 58th Street.
ROBERT E. KEATING, M.D., Clinical Assistant in Diseases of the Chest, Nose and Throat, 301 Division Street.
WALTER B. FEHRING, M.D., Clinical Assistant in Obstetrics and Gynecology, 101 N. State Street.
ALEXANDER A. WHAMOND, M.D., Clinical Assistant in Diseases of the Chest, Throat and Nose, 2095 W. Twelfth Street.
WILLIAM A. LURIE, M.D., Clinical Assistant in Surgery, 1385 W. Twenty-second Street.
W. H. FALKER, M.D., Clinical Assistant in Surgery, 552 E. Sixty-third Street.
J. W. ELLIS, M.D., Clinical Assistant in Surgery.
E. F. GARRAGHAN, M.D., Clinical Assistant in Surgery, 3424 Prairie Avenue.
GEORGE W. BOOT, M.D., Clinical Assistant in Diseases of the Eye and Ear, Evanston, Ill.
WILLIAM J. M. CUNNINGHAM, M.D., Clinical Assistant in Skin and Venereal Diseases, 830 W. Sixty-third Street.
HARRIET B. JENNINGS, M.D., Clinical Assistant in Obstetrics and Gynecology, 6214 Madison Avenue.
F. GURNEY STUBBS, M.D., Clinical Assistant in Diseases of the Chest, Throat and Nose, 625 Forty-sixth Street.
S. J. McNEILL, M.D., Clinical Assistant in Nervous and Mental Diseases, 2771 N. Ashland Avenue.
LUDWIG M. LOEB, S.B., M.D., Fellow in Medicine, 100 State Street.
HERMAN EMIL WOLF, M.D., *Rush Alumni* Fellow in Pathology, Rush Medical College.
OSCAR P. JOHNSTON, M.D., Fellow in Pathology, Rush Medical College.
GUY CARSON KINNAMAN, M.D., Fellow in Surgery, Rush Medical College, 390 N. Clark Street.

FELLOWS APPOINTED FOR 1905-6

(IN THE MEDICAL DEPARTMENTS, UNIVERSITY OF CHICAGO)

MARY BLOUNT, S.B., Zoölogy.
 RUSH LESLIE BURNS, S.B., Physiology.
 DUDLEY WATSON DAY, S.B., Bacteriology.
 EMIL GOETTSCH, S.B., Anatomy.
 PAUL GUSTAV HEINEMANN, S.B., Bacteriology.
 EDWIN GARVEY KIRK, S.B., Pathology.
 WILFRED HAMILTON MANWARING, S.B., Pathology.

FRANK HENRY PIKE, A.B., Physiology.
 STEPHEN WALTER RANSOM, S.B., Neurology.
 CHARLES ALBERT SHULL, S.B., Zoölogy.
 THOMAS CALDERWOOD STEPHENS, A.B., Zoölogy.
 JOHN SUNDWALL, Ph.B., S.B., Anatomy.
 BENJAMIN TAYLOR TERRY, A.B., Bacteriology.

EXTRA-MURAL INSTRUCTORS

At Cook County Hospital

MALCOLM L. HARRIS, M.D., Assistant Clinical Professor (*extra-mural*) in Surgery.
 A. E. HALSTED, M.D., Assistant Clinical Professor (*extra-mural*) of Surgery.

At West Side Hebrew Dispensary

ROSA ENGELMAN, A.B., M.D., Assistant Clinical Professor (*extra-mural*) of Pediatrics.
 SYDNEY KUH, M.D., Assistant Clinical Professor (*extra-mural*) of Neurology.
 GEORGE MORGENTHAU, M.D., Assistant Clinical Professor (*extra-mural*) of Diseases of the Throat, Nose, and Ear.
 EMANUEL FRIEND, M.D., Assistant Clinical Professor (*extra-mural*) of Surgery.
 LOUIS A. GREENSFELDER, M.D., Assistant Clinical Professor (*extra-mural*) of Surgery.
 A. W. SCHRAM, M.D., Clinical Instructor (*extra-mural*) in Medicine.
 MAY MICHAEL, M.D., Clinical Assistant (*extra-mural*) in Diseases of Children.
 L. E. GORDON, M.D., Clinical Assistant (*extra-mural*) in Diseases of the Throat, Nose, and Ear.
 FRANK B. HARMISON, M.D., Clinical Assistant (*extra-mural*) in Medicine.
 WILLIAM H. RUBOVITZ, M.D., Clinical Assistant (*extra-mural*) in Surgery.
 G. W. WAGNER, M.D., Clinical Assistant (*extra-mural*) in Surgery.

At Chicago Isolation Hospital

HEMAN SPALDING, M.D., Associate Clinical Professor (*extra-mural*) of Medicine.

At St. Luke's Hospital

LEWIS L. MACARTHUR, M.D., Assistant Clinical Professor (*extra-mural*) of Surgery.

At Alexian Brothers' Hospital

J. H. HOELSCHER, M.D., Assistant Clinical Professor (*extra-mural*) in Medicine.

At St. Anthony's Hospital

FRED J. E. EHEMANN, M.D., Clinical Instructor (*extra-mural*) in Medicine.
 LAWRENCE RYAN, M.D., Assistant Clinical Professor (*extra-mural*) in Surgery.

JAMES H. HARPER, *Registrar*

OFFICERS OF ADMINISTRATION

AT THE UNIVERSITY OF CHICAGO

The President of the University, WILLIAM RAINEY HARPER, *Haskell Museum*, First Floor, Room 10.
 The University Recorder, ALONZO KETCHAM PARKER, *Haskell Museum*, First Floor, Room 11.
 The University Chaplain, CHARLES RICHMOND HENDERSON, *Cobb Lecture Hall*, First Floor, Room 1.
 The University Registrar, THOMAS WAKEFIELD GOODSPEED, *Press Building*, First Floor.
 The Secretary to the President, HENRY PORTER CHANDLER, *Haskell Museum*, First Floor, Room 10.
 The Dean of Medical Students, JOHN MILTON DODSON, *Physiology Building*, First Floor, Room 13.
 The Dean in Medical Work, HARRY GIDEON WELLS, *Physiology Building*, First Floor, Room 13.
 The Dean of Women, MARION TALBOT, *Cobb Lecture Hall*, First Floor, Room 9.

THE ADMINISTRATIVE BOARD OF MEDICAL AFFAIRS

AT THE UNIVERSITY OF CHICAGO

THE PRESIDENT, *Chairman*.

THE RECORDER, *ex officio*. DEAN JOHN MILTON DODSON, *ex officio*. DEAN MARION TALBOT, *ex officio*.
 DEAN HARRY GIDEON WELLS, *ex officio*.

PROFESSOR NICHOLAS SENN.
 PROFESSOR CHARLES OTIS WHITMAN.
 PROFESSOR ALBERT ABRAHAM MICHELSON.
 PROFESSOR FRANK BILLINGS.
 PROFESSOR CHARLES REID BARNES.
 PROFESSOR HENRY HERBERT DONALDSON.
 PROFESSOR GEORGE NEIL STEWART.
 PROFESSOR LUDVIG HEKTOEN.
 PROFESSOR JOHN ULRIC NEF.
 PROFESSOR LEWELLYS F. BARKER.
 PROFESSORIAL LECTURER WALTER STANLEY
 HAINES.
 PROFESSORIAL LECTURER EPHRIAM FLETCHER
 INGALS.
 PROFESSORIAL LECTURER JAMES NEVINS HYDE.
 PROFESSORIAL LECTURER ARTHUR DEAN BEVAN.
 PROFESSORIAL LECTURER JOHN CLARENCE
 WEBSTER.
 PROFESSOR JULIUS STIEGLITZ.
 ASSOCIATE PROFESSOR EDWIN OAKES JORDAN.
 ASSOCIATE PROFESSOR FRANK RATTRAY LILLIE.
 ASSOCIATE PROFESSOR ALBERT PRESCOTT
 MATHEWS.
 ASSOCIATE PROFESSOR ROBERT RUSSELL
 BENSLEY.

ASSISTANT PROFESSOR DAVID JUDSON LINGLE.
 ASSISTANT PROFESSOR ROBERT ANDREWS
 MILLIKAN.
 ASSISTANT PROFESSOR HERBERT NEWBY McCOY.
 ASSISTANT PROFESSOR JOSEPH EDWARD
 RAYCROFT.
 ASSISTANT PROFESSOR PRESTON KYES.
 DR. CHARLES MANNING CHILD.
 DR. BROWN PUSEY.
 DR. HOWARD TAYLOR RICKETTS.
 MR. DANIEL GRAISBERRY REVELL.
 DR. LAUDER WILLIAM JONES.
 DR. GEORGE E. SHAMBAUGH.
 DR. JOHN CHARLES HESSLER.
 MR. NORMAN MACLEOD HARRIS.
 MR. WILLIAM LAWRENCE TOWER.
 MR. JOHN GORDON WILSON.
 MR. BASIL COLEMAN HYATT HARVEY.
 DR. WILLIS B. HOLMES.
 DR. BURTON JESSE SIMPSON.
 DR. CHARLES CLAUDE GUTHRIE.
 DR. SAMUEL ALEXANDER MATTHEWS.
 DR. ANTON JULIUS CARLSON.
 MR. BENSON AMBROSE COHOE.

INTRODUCTORY STATEMENT

THE CURRICULUM.—The curriculum of Rush Medical College, extending over four or five annual sessions of nine months (three Quarters) each, embraces (1) two years of work in the fundamental branches of Anatomy, both gross and microscopic, Neurology, Embryology, Physiology, Physiological Chemistry, Pharmacology, Bacteriology and Pathology; and (2) two or three years in the clinical branches of *Materia Medica*, Therapeutics, Clinical Pathology, Medicine, Surgery, Obstetrics, and the special lines of practice.

FUNDAMENTAL BRANCHES AT THE UNIVERSITY OF CHICAGO.—The courses in the fundamental branches are offered only at the University of Chicago, in the spacious Hull Biological Laboratories, by instructors whose time is wholly devoted to teaching and investigation in their respective lines. It is believed that the student pursuing these studies in the atmosphere of an institution devoted to scientific work cannot but gain a broader and more thorough conception of these sciences. Such a training will not only afford a better preparation for the clinical courses of the Medical College and for the practice of medicine and surgery, but will also enable the student to follow more easily in paths along which medical advances promise to be made, and to apply these new discoveries in his daily work.

THE CLINICAL BRANCHES are taught at Rush Medical College, with its Central Free Dispensary and the Presbyterian Hospital, and in the Cook County Hospital, the West Side Hebrew Dispensary, and other hospitals in the vicinity of the College.

FIFTH YEAR.—Beginning with the session of 1905-6, a *fifth year* will be added to the curriculum which, for the present, will be optional.*

The work of this year will be that of

A. A Fellowship in one of the Departments of the College; or

B. An internship in a hospital under the following conditions:

1. Each student taking such work will be under the constant supervision of the Faculty, by whom the hospital in which the internship is taken must be approved.
2. The student must present evidence of thorough clinical work and, if possible, an exhaustive study of a selected group of clinical cases involving original work.
3. He will be required to pass a special examination at the end of the year.

On the successful completion of this fifth year he will receive the Degree of Doctor of Medicine *cum laude*.

THE REQUIREMENTS FOR ADMISSION comprise (a) the completion of a four-year high-school course, and, in addition, (b) two years of work in a recognized college or university. This work must have included a thorough course in College Chemistry, both inorganic and organic; a course in College Physics, with laboratory work; a course in general Biology, with laboratory work; and a reading knowledge of German or of French. A student may be admitted with conditions in not more than six Majors of College work.

It is the firm conviction of the Faculty that, under the conditions now prevailing in the practice of medicine, and which are rapidly becoming more exacting, no person can afford to enter upon the study of medicine with a preparation less thorough and comprehensive than that demanded by these requirements.

ADMISSION TO ADVANCED STANDING.—Students or graduates of other medical colleges whose work is recognized by this College, may be admitted to advanced standing. They are required to present credentials showing that their preparatory education was fully equivalent to that demanded of the students of Rush Medical College, in the class which they wish to enter; they must have spent an amount of time, estimated in months, and have completed work in the medical branches equal to that demanded of students in this College. Any deficiencies may be made up by attendance upon extra quarters or, in small degree, by extra work. (See p. 19.)

REQUIREMENTS FOR GRADUATION.—The requirements for graduation comprise attendance upon four sessions of three Quarters (nine months) each, the completion of a prescribed amount of work, and the passing of certain examinations both written and practical. (See p. 19.)

THE COMBINED COURSE FOR THE DEGREES OF M.D., AND S.B., A.B., OR PH.B.—Attention is called to the fact that courses are offered in the University of Chicago, in the Departments of Art, Literature and Science, in all the branches of a liberal education. The work of the Senior College (Junior and Senior years of the University) being almost wholly elective, a student seeking a Bachelor's degree may elect courses in Anatomy, Physiology, etc., and thus procure such a degree together with that of M.D., in from six to six and one-half years. This plan admits of great elasticity in adjustment to the needs of the individual students, as one may spend anywhere from six to twelve Quarters or more in preparatory college work before taking up the study of the medical branches. Every student is urged to make his preparatory work as extensive and thorough as his age and other circumstances will permit. (See p. 25.)

THE ELECTIVE SYSTEM.—The work of the first two years of the medical curriculum is in part, and that of the last two years wholly, elective, the choice of the student for each Quarter being subject to certain restrictions. (See p. 27.)

THE QUARTER SYSTEM.—The College is in session during four Quarters each year, and a student may enter at the beginning of any Quarter. Students beginning their medical work, however, are advised to commence with the Autumn Quarter. (See p. 24.)

THE TUITION FEE is sixty dollars per Quarter, or one hundred and eighty dollars for each of the four annual sessions, this tuition including all laboratory fees. (See pp. 21-23.)

STUDENT SELF-HELP.—Many opportunities are afforded in Chicago for students to earn a portion (and in exceptional cases the whole) of their expenses. A booklet giving fuller information in regard to this matter will be mailed on application.

*As soon as this fifth year in an internship can be made a prerequisite for the degree of M.D., under the rulings of the Medical Examining Boards of the several states, it is the purpose of the Faculty to extend the required curriculum to five years.

REQUIREMENTS FOR ADMISSION

These comprise (A) the successful completion of a four-year high-school or academy course, qualifying the student to enter the Junior College (Freshman class), of the University of Chicago;* and (B) eighteen Majors (= six Quarters) of the usual college course or a full equivalent therefor.

A. HIGH-SCHOOL WORK REQUIRED FOR ADMISSION.—The high-school course must have included at least 2 units† of Latin (Cæsar and Elementary Grammar); 3 units of English (Rhetoric, Composition, and Literature); $2\frac{1}{2}$ units of Mathematics (Algebra, through Quadratics and Plane Geometry); 1 unit of History; 1 unit of Physics (including laboratory work); and $5\frac{1}{2}$ units in any of the other studies usually included in a high-school curriculum. A diploma is not accepted as sufficient evidence of such preparation, but specific statement is required as to the amount and character of the work in each branch of study. *Blanks are fur-*

nished by the University for the presentation of such credits, and will be mailed on application to the Dean of Medical Students.

B. COLLEGE WORK REQUIRED FOR ADMISSION.—In addition to the requirements for admission to the Junior College (Freshman class), there are demanded two years (18 Majors) of college work in the branches which especially prepare one for the study of Medicine. (See p. 25.)

Three Majors of college Chemistry (including one Major of organic Chemistry) in addition to one year of high-school Chemistry, a thorough course in elementary Biology, with laboratory work, one Major of college Physics, must have been taken, and the student must possess a reading knowledge of German or of French. This college work may be accomplished at the University of Chicago in 6 (exceptionally in 5) Quarters.

THE CURRICULUM

1. *The fundamental medical branches.*—The course for the first two years' work in Medicine consists mainly of instruction in the fundamental medical sciences. It consists of the following courses:†

- a) CHEMISTRY: The Chemistry of Medicinal Drugs, $\frac{1}{2}$ Major (19).
- b) ANATOMY: $7\frac{1}{2}$ Majors, as follows:
Human Anatomy (Dissecting), 4 Majors (1, 2, 3, 4, 5).
Splanchnology, Histology, and Cytology, $1\frac{1}{2}$ Majors (10, 11).
Embryology, 1 Major (Zoölogy 20, or 21).
Neurology, 1 Major (Neurology 3).
- c) PHYSIOLOGY: $6\frac{1}{2}$ Majors, as follows:
Physiology, $3\frac{1}{2}$ Majors (12, 13, 14).
Physiological Chemistry, $1\frac{1}{2}$ Majors (20).
Pharmacology, $1\frac{1}{2}$ Majors (21).
- d) PATHOLOGY: $3\frac{1}{2}$ Majors, as follows:
Bacteriology, $1\frac{1}{2}$ Majors (1).
Pathology, 2 Majors (2A, 2B)

A total of 18 Majors. All of this work is given at the University of Chicago.

2. *The clinical medical branches.*—The work of the last two, or clinical, years comprises the following branches:

- a) Materia Medica, Therapeutics, Medical Jurisprudence, and Preventive Medicine, at least 2 Majors.
- b) Pathology, at least 1 Major.
- c) Medicine, at least 4 Majors.
- d) Surgery, at least $5\frac{1}{2}$ Majors, one Major of which must be in Surgical Anatomy.
- e) Obstetrics and Gynecology, at least 3 Majors.
- f) Diseases of the Chest, Throat, and Nose, at least $1\frac{1}{2}$ Majors.
- g) Diseases of the Eye and Ear, at least 1 Major.
- h) Skin and Venereal Diseases, at least 1 Major.
- i) Additional work in any branch, or branches of the student's choice, at least 2 Majors.

A total of 21 Majors.

* A complete and more detailed statement of the requirements and the ground covered by each subject will be sent to any principal, teacher, or student on application to the Dean of Medical Students.

† A unit corresponds to a daily recitation throughout the school year of thirty-six weeks.

GENERAL REGULATIONS

Students are admitted to the Medical Courses either as (1) *Medical Students*, or (2) *Undergraduate Students* (candidates for a Bachelor's degree, S.B., A.B., or Ph.B.). (3) *Graduates* of the University of Chicago, or of other universities or colleges of good standing, are admitted to the Medical Course as Medical Students; they are allowed all the privileges of the members of the Graduate Schools of the University. (4) In addition to students in regular standing, provision is made for the admission to the University of undergraduate students not seeking degrees. Such students are known as *Unclassified Students*. They may register for medical subjects, but they are not candidates for the M.D. degree until they have fulfilled the requirements for admission.

1. Admission as a Medical Student.

- a) Each student must present to the Faculty certificates of good moral character, signed by at least two physicians of good standing in the state in which the applicant last resided.
- b) He must be able to comply with the requirements for admission to the medical courses of the University of Chicago (see p. 16). In brief, they consist of a four-year high-school course plus two years of college work, which must have included College Physics, General Chemistry, and Biology, and a reading knowledge of German or French.
- c) He will matriculate and register as a student of Rush Medical College as well as of the University at the beginning of his course. Such matriculation and registration is accomplished at the University without extra fee.

2. Admission as an Undergraduate Student (as a candidate for a Bachelor's degree).

- a) The first two years' work in Medicine may be taken as the third and fourth years of the Bachelor of Science courses upon fulfillment of certain requirements for the degree (see p. 25). A very considerable part of the first two years' work in Medicine may also be taken during the third and fourth years of the Bachelor of Arts or the Bachelor of Philosophy courses (see p. 25). Students who wish to enter college and prepare to take the medical work as part of their

Baccalaureate course may enter at the beginning of the Junior College Course (first college year), or at any further stage of advancement.*

- b) Each student must present to the Faculty certificates of good moral character signed by at least two physicians of good standing in the state in which the applicant last resided.
- c) In order to comply with the rules of the Medical Examining Boards of several states, a student will matriculate with the Dean of Rush Medical College (at the University) at the beginning of his work in Medicine. He will consult with the Dean of Medical Students each Quarter in regard to his work, and take a card of advice to the Dean of the Senior Colleges, with whom the student will continue to register until he receives a Bachelor's degree. *Credit will not be given toward the M.D. degree unless the student complies with this regulation.*

3. Admission as a Graduate Student.

- a) Admission to the Graduate Schools of the University is granted (1) to those who have been graduated from the Colleges of the University of Chicago with the degree A.B., Ph.B., or S.B.; (2) to those holding Baccalaureate degrees from other institutions of good standing.
- b) Applications for admission in the case of students not graduates of the University should be accompanied by testimonials as to character and scholarship. Such testimonials should take the form of diplomas, written or printed theses, or satisfactory evidence in some other form of the student's fitness for admission.
- c) A Graduate Student taking the Medical Course must comply with 1a) and 1c). He will consult each Quarter with the Dean of Medical Students, and will take a card of advice from him to the Dean of the Graduate School, with whom the student will register. *Credit will not be given toward the M.D. degree unless the student complies with this regulation.*
- d) Advanced standing in the Medical Course is granted for work done in other medical schools according to the conditions stated on p. 19 of this *Bulletin*.

* A student desiring to enter the course as a candidate for the S.B., A.B. or Ph.B. degree is requested to consult p. 25 of this *Bulletin*, where a complete statement is given of the requirements for the college degrees and of the conditions for admission to advanced standing in the Colleges. He is also invited to enter into correspondence upon the subject with the Dean of the Senior Colleges, the University of Chicago, Chicago, Ill.

4. *Unclassified Students.*

- a) Candidates for admission to the University as *Unclassified Students* (1) must be at least twenty-one years of age; (2) must show good reason for not entering upon a regular course; (3) *must take the entrance examinations of the Departments in which they wish to work*; (4) must satisfy the Dean and the particular instructors under whom they desire to study

that they are prepared to carry the courses elected. Unclassified students conform to all regulations of the University, and having been admitted, their continuance depends on the maintenance of a satisfactory standing.

Note.—Students entering the University for the first time should make it a point to complete all arrangements for entrance, either by correspondence or in person, at least two days before the opening of the Quarter.

REQUIREMENTS FOR ADMISSION TO THE MEDICAL COURSES

These comprise (a) the successful completion of a four-year high-school or academy course, qualifying the student to enter the Junior College (Freshman class) of the University of Chicago,* and (b) 18 Majors (=6 Quarters) of the usual college course, or a full equivalent therefor. (See p. 18, col. 2, B, for details.)

A. HIGH-SCHOOL WORK REQUIRED FOR ADMISSION

The high-school course must have included at least 2 units† of Latin (Cæsar and Elementary Grammar); 3 units of English (Rhetoric, Composition, and Literature); 2½ units of Mathematics (Algebra through Quadratics and Plane Geometry), 1 unit of History; 1 unit of Physics (including laboratory work); and 5½ units in any of the other studies usually included in a high-school curriculum. A diploma is not accepted as sufficient evidence of such preparation, but specific statement is required as to the amount and character of the work in each branch of study. *Blanks are furnished by the University for the presentation of such credits, and will be mailed on application to the Dean of Medical Students.*

Such credits are accepted without examination from affiliated or co-operating schools (see list below), also from the accredited schools of certain state universities (see list below). Students from schools not recognized by the University must submit to examination in the branches required.

1. *Times and places of examinations.*—Examinations for admission are held three times a year at the University. (For dates see the Calendar, p. 4.) They are also given, at the request of students or teachers, at any of the regular dates, in cities outside of Chicago in which satisfactory arrangements can be made. Applications for such examinations should be made to the Dean of Affiliations at least thirty days in advance. Examinations for admission at other than

the regular dates may be given only at the University, and that by special permission of the Dean, and upon the payment of a fee of not less than \$10 nor more than \$15 (the amount being dependent on the number of examinations taken).

Candidates for admission are not required to take all the examinations at one time.

2. *Fee for examination for admission.*—A fee of \$5 is charged for examination for admission. This is paid when the first examination is taken. The same fee is paid by students entering upon certificate from co-operating schools.

3. *Students from Morgan Park Academy, the University High School* (the South Side Academy and the Chicago Manual Training School combined), *and the Affiliated and Co-operating Schools* are admitted to the University upon presentation of a *subject certificate* covering each of the subjects stated above as required for admission.

4. *Affiliated schools.*—The following is the list of affiliated schools doing preparatory work:

ILLINOIS—

Bradley Polytechnic Institute, Peoria; dean, Theodore C. Burgess. Dearborn Seminary, Chicago; dean, Evelyn Matz. Frances Shimer Academy, Mount Carroll; dean, W. P. McKee. The Harvard School, Chicago; dean, John J. Schobinger. The Kenwood Institute, Chicago; dean, Elizabeth Faulkner. The University School for Girls, Chicago; dean, Anna R. Haire.

INDIANA—

Culver Military Academy, Culver; dean, Colonel A. F. Fleet.

WISCONSIN—

Wayland Academy, Beaver Dam; dean, Edwin P. Brown.

5. *Co-operating schools.*—The following is the list of co-operating secondary schools;‡

ILLINOIS—

Austin High School, Chicago; principal, George H. Rockwood. Calumet High School, Chicago; principal, A. S. Hall. Englewood High School, Chicago; principal, James E. Arm.

* A complete and more detailed statement of the requirements and the ground covered by each subject will be sent to any principal, teacher, or student on application to the Dean of Medical Students.

† A unit corresponds to a daily recitation throughout the school year of thirty-six weeks.

‡ In the case of certain schools one or more subjects have been excepted. Graduates from such schools will be credited with these subjects on passing the entrance examination therein.

strong. English High and Manual Training School, Chicago; principal, A. R. Robinson. Hyde Park High School, Chicago; principal, Charles W. French. Jefferson High School, Chicago; principal, Charles A. Cook. John Marshall High School, Chicago; principal, L. J. Block. Lake High School, Chicago; principal, Edward F. Stearns. Lake View High School, Chicago; principal, B. F. Buck. Joseph Medill High School, Chicago; principal, Edward C. Rosseter. Northwest Division High School, Chicago; principal, Franklin P. Fisk. Robert A. Waller High School, Chicago; principal, O. S. Westcott. South Chicago High School, Chicago; principal, Charles I. Parker. South Division High School, Chicago; principal, Spencer R. Smith. William McKinley High School, Chicago; principal, George M. Clayberg. The University School for Boys, Chicago; principal, E. C. Coulter. The Starrett School for Girls; principal, Mrs. Helen E. Starrett. Alton High School; principal, J. E. Turner. Atlanta High School; principal, Mary Neff. East Side High School, Aurora; principal, C. L. Phelps. West Side High School, Aurora; principal, C. P. Briggs. Beardstown High School; principal, Elva J. Saunders. South Belvidere High School; principal, C. O. Townsend. Bloomington High School; principal, E. L. Boyer. Blue Island High School; principal, J. E. Lemon. Charleston High School; principal, William Wallis. Clinton High School; principal, Martha Hunt. Clyde High School; principal, H. V. Church. Danville High School; principal, E. D. Martin. Decatur High School; principal, S. W. Ehrman. DeKalb High School; principal, F. M. Giles. Northern Illinois State Normal School, DeKalb; president, John W. Cook. Des Plaines High School; principal, W. L. Smyser. Dixon (North Side) High School; principal, Lydia Williamson. Dixon (South Side) High School; principal, B. F. Bullard. East St. Louis High School; principal, Charles Manners. Elgin High School; principal, E. J. Kelsey. Elgin Academy; dean, George N. Sleight. Evanston High School; principal, Henry L. Boltwood. Freeport High School; principal, L. A. Fulwider. Geneseo High School; principal, H. H. Frost. Harvey High School; principal, J. Elmer Cable. Havana High School; principal, Sara E. Pierce. Highland Park (Deerfield Township) High School; principal, Richard L. Sandwick. Hinsdale High School; principal, Mary Macnair. Jacksonville High School; principal, ———. Illinois Woman's College, Jacksonville; president, J. R. Harker. Joliet High School; principal, J. Stanley Brown. La Grange (Lyons Township) High School; principal, E. R. Cole. Kenilworth (New Trier Township) High School; principal, B. D. Parker. Ferry Hall Seminary, Lake Forest; principal, Sabra L. Sargent. Lake Forest School for Boys, Lake Forest; principal, J. C. Sloan. LaSalle High School; principal, T. J. McCormack. Lincoln High School; principal, I. M. Allen. Macomb High School; principal, Charles E. Lawyer. Western Illinois State Normal School, Macomb; president, J. W. Henninger. Mattoon High School; principal, J. P. Gilbert. Mendota (West Side) High School; principal, Myra J. Howes. Moline High School; principal, F. A. Thomas. Monmouth High School; principal, W. L. Hanson. Morgan Park High School; principal, J. H. Heil. Morrison High School; principal, Grace Bushnell. Oak Park High School; principal, John C. Hanna. Ottawa High School; principal, J. O. Leslie. Peoria High School; principal, A. W. Beasley. Polo High School; principal, Lillian Jose. Pontiac High School; principal, C. E. DeButts. Princeton High School; principal, ———. McGill. Quincy High School; principal, J. E. Pearson. Riverside High School; principal, E. L. Hardy. Rockford High School; principal, E. U. Graff. Rock Island High School; principal, H. E. Brown. Springfield High School; principal, L. M. Castle. St. Charles High School; principal, H. Lavina

Moore. Sterling High School; principal, E. T. Austin. Streator High School; principal, R. R. Upton. Sycamore High School; principal, J. M. Adea. Tuscola High School; principal, F. W. Schacht. Waukegan High School; principal, W. J. Stebbins. Wheaton High School; principal, Ella Gregg.

CALIFORNIA—

Los Angeles High School; principal, W. H. Hough. San Francisco (Girls) High School; principal, Elisha Brooks. San Francisco (Lowell) High School; principal, Frank Morton.

COLORADO—

Colorado Springs High School; principal, George E. Myers. Denver (District No. 1; High School) principal, W. H. Smiley. Denver (North Side) High School; principal, Edward L. Brown. Denver (West Side) High School; principal, E. F. Hermanns. Leadville High School; principal, W. M. Parker. Pueblo (Centennial) High School; principal, John M. Downen. Pueblo (Central) High School; principal, Izora Scott.

GEORGIA—

Atlanta (Girls) High School; principal, Nettie C. Sergeant.

INDIANA—

Anderson High School; principal, J. B. Percy. Auburn High School; principal, O. D. Tynes. Crawfordsville High School; principal, Anna Wilson. Elkhart High School; principal, S. B. McCracken. Frankfort High School; principal, John J. Mitchell. Fort Wayne High School; principal, Chester T. Lane. Goshen High School; principal, Lillian Michael. Girls' Classical School, Indianapolis; principal, Mrs. May Wright Sewall. Indianapolis (Manual Training) High School; principal, Charles E. Emmerich. Indianapolis (Shortridge) High School; principal, George W. Benton. Lafayette High School; principal, R. F. Haight. LaPorte High School; principal, F. J. Simms. Ligonier High School; principal, W. A. Baum. Logansport High School; principal, John M. Ashby. Marion High School; principal, V. R. McNight. Michigan City High School; principal, Louis Keeler. Muncie High School; principal, Walter F. Erwin. Richmond High School; principal, D. R. Ellabarger. South Bend High School; principal, Charles H. Bartlett. Terre Haute High School; principal, C. J. Wats. Wabash High School; principal, Adelaide Baylor. Warsaw High School; principal, J. J. Early.

IOWA—

Cedar Rapids High School; principal, Abbie S. Abbott. Clinton High School; principal, J. S. McCowan. Council Bluffs High School; principal, F. C. Ensign. Davenport High School; principal, William D. Wells. Saint Katherine's Hall, Davenport; The Sisters of St. Mary. Des Moines (East Side) High School; principal, May Goodrell. Des Moines (West Side) High School; principal, William Crusinberry. Dubuque High School; principal, Frank L. Smart. Fort Dodge High School; principal, I. N. Warren. Glenwood High School; principal, Katherine Maute. Keokuk High School; principal, Jesse Benjamin Marshalltown High School; principal, Ellis U. Graff. Mason City High School; principal, Esther L. Bissell. Ottumwa High School; principal, J. E. Roberts. Red Oak High School; principal, Edward E. Rall. Sioux City High School; principal, George E. Marshall. Washington High School; principal, Seth Thomas.

KANSAS—

Fort Scott High School; principal, W. C. Lansdon. Kansas City High School; principal, W. C. McCroskey. Leavenworth High School; principal, W. A. Evans. Topeka High School; principal, H. S. Miller.

KENTUCKY—

Louisville (Girls) High School; principal, W. H. Bartholomew. Louisville (Boys) High School; principal, R. P. Halleck.

MAINE—

Coburn Classical Institute, Waterville; principal, Franklin W. Johnson.

MICHIGAN—

Battle Creek High School; principal, H. D. Nutt. Bay City High School; principal, George R. Swain. Benton Harbor High School; principal, O. G. Marsh. Calumet High School; principal, Edward J. Hall. Detroit (Central) High School; principal, James H. Beazell. Detroit (The Eastern) High School; principal, S. L. Houghton. The Detroit Home and Day School; principal, Ella M. Liggett. Grand Rapids (Central) High School; principal, A. J. Volland. Ishpeming High School; principal, May McKittrick. Jackson High School; principal, L. S. Norton. Marquette High School; principal, Albert A. Kienholz. Menominee High School; principal, W. L. German. Michigan Military Academy, Orchard Lake; principal, James H. Harris. Saginaw (East Side) High School; principal, Webster Cook. Saginaw (West Side) High School; principal, L. B. Austin. St. Joseph High School; principal, Max R. Hodgdon.

MINNESOTA—

Duluth High School; principal, Charles A. Smith. Minneapolis (Central) High School; principal, John N. Greer. Minneapolis (East Side) High School; principal, W. F. Webster. St. Paul (Central) High School; principal, E. V. Robinson. St. Paul (Cleveland) High School; principal, S. A. Farnsworth. St. Paul (Humboldt) High School; principal, Henry S. Baker. Saint Mary's Hall, Faribault; rector, Rt. Rev. S. C. Edsall. The Shattuck School, Faribault; Rev. James Dobbin.

MISSOURI—

Blees Military Academy, Macon; superintendent, F. W. Blees. Kansas City (Central) High School; principal, T. I. Cammack. Kansas City (Manual Training) High School; principal, ———. Kansas City (Westport) High School; principal, S. A. Underwood. St. Joseph High School; principal, C. E. Miller. St. Louis High School; principal, W. J. S. Bryan.

MONTANA—

Helena High School; principal, William R. Trowbridge.

NEBRASKA—

Omaha High School; principal, A. H. Waterhouse. Brownell Hall, Omaha; dean, Georgiana Humphreys.

NEW YORK—

Buffalo (Masten Park) High School; principal, F. S. Fosdick.

OHIO—

Akron High School; principal, D. C. Rybolt. Canton High School; principal, C. A. Armstrong. Cleveland (Central) High School; principal, Edward L. Harris. Cleveland (East Side) High School; principal, B. U. Rannels. Cleveland (Lincoln) High School; principal, James W. McLane. Cleveland (South) High School; principal, G. A. Reutenik. Columbus (Central) High School; principal, Charles E. Albright. Columbus (East) High School; principal, F. B. Pearson. Columbus (North) High School; principal, C. D. Everett. Dayton (Steele) High School; principal, Charles L. Loos, Jr. Findlay High School; principal, J. F. Smith. Sandusky High School; principal, George L. Dietrich. Toledo (Central) High School; principal, S. F. Ball. Youngstown High School; principal, W. L. Griswold.

PENNSYLVANIA—

Pittsburg (Central) High School; principal, Edward Rynearson. Westtown Boarding School, Westtown; principal, William F. Wickersham.

TEXAS—

Dallas High School; superintendent, J. L. Long. Denison High School; principal, F. B. Hughes. El Paso High School; principal, H. P. Reynolds. Fort Worth High School; principal, W. D. Williams. Galveston High School; principal, ———. Ransom. Houston High School; principal, W. G. Smiley. Sherman High School; principal, B. W. Glasgow.

WISCONSIN—

Appleton (Ryan) High School; principal, Ralph W. Pringle. Elkhorn High School; principal, T. J. Jones. Fond du Lac High School; principal, Elizabeth Waters. Hillside Home School; principals, Ellen and Jane Lloyd-Jones. Janesville High School; principal, H. C. Buell. Manitowoc High School; principal, P. G. W. Kellar. Milwaukee (East Division) High School; principal, George A. Chamberlain. Milwaukee (South Division) High School; principal, Edward Rissman. Milwaukee (West Division) High School; principal, C. E. McLenegan. Milwaukee-Downer College; president, Ellen C. Sabin. Racine High School; principal, E. W. Blackhurst. Sheboygan High School; principal, John S. Roessler. Waukesha High School; principal, H. L. Terry. Carroll College, Waukesha; president, Wilbur F. Carrier, D.D.

6. *Accredited schools of certain state universities.*—For the year beginning June 17, 1905, credits from the following schools, in addition to the foregoing list, will be accepted for admission to the *Medical Course* of the University: four-year high schools and academies on the accredited lists of the following universities: the University of Wisconsin, the University of Michigan, the University of Minnesota, the University of Iowa, the University of Illinois, the University of Nebraska, the University of Kansas, the University of Indiana, and the University of Ohio.

B. COLLEGE WORK REQUIRED FOR ADMISSION

For the year beginning June 17, 1905, there will be demanded, in addition to the requirements for admission to the Junior College (Freshman class), *eighteen Majors* of college work, six of which must have been in branches which especially prepare one for the study of Medicine (see pp. 113, 114 of this *Register* for the two-year course of college studies recommended for this purpose). Three Majors of college Chemistry (or two Majors in addition to one year of high-school Chemistry), one Major of Organic Chemistry and one Major of college Physics, and a thorough course in elementary Biology, with laboratory work, must have been taken, and the student must possess a reading knowledge of German or of French. This preparation may be accomplished at the University of Chicago in five or six Quarters. A student may be admitted to the Medical Courses conditioned in not more than six Majors of college work, but all of the required high-school work must have been completed before he can enter upon the work of the second year of the medical course.

Attention is called to the fact that the extra credits which will be required in addition to high-school work may be secured in the Colleges of Arts, Literature, and Science of the University of Chicago by attend-

ance during extra Quarters before entering the medical course, or, in small part, by taking extra work in these Colleges during the student's attendance upon the medical course. A student may qualify for admission to the medical course by prolonging his attendance or taking extra work in the University. Credit will be

accepted for such work in any other college or university of equal standing.

Applicants for admission to advanced standing in the courses for the degrees of A.B., Ph.B., or B.S. at the University of Chicago should apply to the University for the *Circular of Information* of the Colleges.

ADMISSION TO ADVANCED STANDING

Students are admitted to advanced standing in the Medical Course of the University as follows:

Students from other medical schools whose standards are fully equivalent to those of this institution may receive credit for time spent—estimated in months—and for work successfully completed in such institutions, provided it is equivalent to corresponding work in the medical course in the University. Such students should give an explicit statement in regard to their preliminary education before beginning the study of Medicine, the date of beginning and ending

of each session attended in a medical college, together with the name of the college and a statement of the studies which they have successfully completed, this latter statement setting forth, if possible, the exact number of hours given to each subject. The credit claimed in each branch must be passed upon by the head of the corresponding Department at the University.

Application blanks.—Blanks for presenting these credits will be furnished on application to the Dean of Medical Students. A student may matriculate at any time in person, or by correspondence.

REQUIREMENTS FOR GRADUATION

The following are the requirements for the degree of Doctor of Medicine:

The candidate must not be less than twenty-one years of age, and must have studied Medicine the legal period. He must have paid all dues, must have complied with all the requirements, and must have maintained unexceptional conduct while at the College.

He must have attended twelve full quarters, or an equivalent amount of time, in a recognized medical school, of which at least the last three quarters must have been in this institution, and forty-five months must have elapsed between the beginning of his first course of medical lectures and the date of his graduation.

He must have completed, successfully, all of the work required, as follows: 18 Majors of work in the Freshman and Sophomore years, comprising a minimum of 6 Majors in Anatomy (from courses offered in the Departments of Anatomy and Neurology and the Subdepartment of Embryology; these courses include both Gross and Microscopic Anatomy*); 5 Majors in Physiology (from courses offered in the Department of Physiology and the Subdepartment of Physiological Chemistry); 1 Major in Pharmacology; 3 Majors in the Departments of Pathology and Bacteriology; 3

Majors in one or more of these Departments of his choice.

His work for the first two years must be pronounced satisfactory by the Committee on Promotions, when a certificate for the completion of the first 18 Majors of medical work will be issued to him.

Twenty-one Majors of work in the Junior and Senior years, comprising a minimum of 2 Majors in Pharmacy, *Materia Medica*, Therapeutics and Preventive Medicine; 1 Major in Pathology; 4 Majors in Medicine; 5½ Majors in Surgery, at least 1 Major of which must be in Surgical Anatomy; 3 Majors in Obstetrics and Gynecology,† at least 2 Majors of which must be in Obstetrics; 1½ Majors in Diseases of the Chest, Throat, and Nose; 1 Major in Diseases of the Eye and Ear; 1 Major in Skin and Venereal Diseases, at least 4 Major in each; 2 additional Majors in any branch or branches of his choice.

He must have passed, successfully, a final examination, both written and practical, in (1) Medicine; (2) Surgery; (3) Obstetrics, and (4) one of the following branches, chosen by him: (a) Gynecology; (b) Diseases of the Chest, Throat, and Nose; (c) Ophthalmology and Otology; or (d) Skin and Venereal Diseases.

He must attend the graduating exercises and receive his diploma in person, unless excused for cause by special action of the Faculty.

*They must include the dissection of the lateral half of the human body.

†Each student must have personally attended not less than three patients in confinement.

GENERAL INFORMATION FOR STUDENTS ENTERING THE FRESHMAN AND SOPHOMORE CLASSES AT RUSH MEDICAL COLLEGE

ROUTINE OF ENTRANCE

I. CREDENTIALS

Applications should be addressed to THE UNIVERSITY OF CHICAGO, or to RUSH MEDICAL COLLEGE, Chicago, Ill. When presenting himself for admission to the University, the student should bring his *admission credits*, if he is entering the Junior College at its beginning; his *letter of dismissal* and an official statement concerning his previous work, if he is entering with advanced standing from another institution; and a *diploma*, if he is applying for admission to a Graduate School.

These documents should be presented at the office of the Dean of Medical Students, Room 13, Physiology Building. Detailed directions will be furnished in the Dean's office as to the mode of matriculating and registering for courses of instruction desired.

II. MATRICULATION AND REGISTRATION

1. TIME OF REGISTRATION.

- a) *Students in residence* in the Summer Quarter will register for the Autumn Quarter during the second week in August.

Students in residence in the Autumn Quarter will register for the Winter and Spring Quarters during the first week of December on the days announced on the bulletin boards and in the *Weekly Calendar*.

- b) Students entering the University *for the first time*, or resuming work after absence for a Quarter, will register on or before the last day of the month, preceding the Quarter in which work is to be done.

2. ORDER OF PROCEDURE FOR NEW STUDENTS.—New students will—

- a) In case they come from a secondary school, present credentials to the Examiner for Sec-

ondary Schools and secure a card of admission credits. Those entering from colleges submit credentials to the Examiner for Colleges. This may be done by correspondence. New students are urged to send their credentials to the Examiner at least two days before they come to register.

- b) *Matriculate* in the office of the Dean of the School or College to which admission is desired. Matriculation is granted on presentation of the proper credentials which entitle the student to enter the University. As evidence of admission the student is given a *matriculation card*. This card should be retained **under all circumstances**, as it must be shown whenever membership in the University is to be demonstrated.
- c) *Register*, in the same office, the courses of study desired for the ensuing Quarter. For this purpose the student will be given a *registration card* for the Quarter, on which, after consultation with the Dean, the courses desired will be entered.
- d) *Pay the University fees* for the ensuing Quarter. In order to do this, the student will present the *matriculation card* and the proper *registration card* at the office of the Registrar, Cobb Hall, Room 7A. On payment of fees the Registrar will stamp the matriculation card and return it to the student, together with a receipt for tuition fees and for laboratory fees (if any).

Tuition and other fees may conveniently be paid by check to the order of The University of Chicago. Details as to fees will be found below.

The names of the students will be sent to instructors, as entitled to attend classes, *only after the fees have been paid*, as above specified.

FEES FOR MATRICULATION, TUITION, DEPOSITS, AND APPARATUS

1. *Matriculation fee*.

- a) The matriculation fee is \$5, and is required of every student on entrance to the University. It is payable but once.
- b) A medical student will also matriculate as a student of Rush Medical College. No extra fee is charged, and the matriculation is good for the

complete medical course, including the clinical years.

- c) An undergraduate student, candidate for a bachelor's degree, who wishes to take the medical course as a part of the work for the Bachelor's degree will matriculate also as a student of Rush Medical College at the beginning of the first

year of his work in the medical course (see p. 15, 2 c). No extra fee is charged, and the matriculation is good for the complete medical course, including the clinical years.

NOTE.—Matriculation for Rush Medical College can be accomplished at the University through the Dean of Medical Students.

2. Tuition fee.

- a) The tuition fee for the medical courses (3 to 3½ Majors each Quarter) is \$60 per Quarter, including all laboratory fees.*

Under the medical-practice acts and the rules of the medical examining boards of most of the states of this country, an applicant for a license to practice must have attended at least four annual sessions in a recognized medical school. Therefore, a student taking the medical courses with a view of procuring the degree of M.D. must matriculate *as a medical student* at least forty-five months before the date of his expected graduation in medicine. From the date of such matriculation he is required to pay the tuition fee for the medical courses, whether he is registered as a Senior College student, a Graduate student, or as a Medical Course student.

In order that a Graduate student, Senior or Junior College student, may have his work counted toward the M.D. degree, he must be matriculated as a student of Rush Medical College and must each Quarter secure from the Dean of Medical Students a card of advice as to registration, and must present this card to his own Dean on registering with him.

NOTE.—A student who is taking the medical courses with no intention of securing the medical degree, may, if he prefers, pay the usual University fee of \$40 per Quarter, with additional laboratory fees as follows:

In Chemistry and Practical Gross Anatomy, \$5 for a Major course and \$2.50 for a Minor course.

In all Biological Laboratory courses, except Practical Gross Anatomy, \$2.50 for a Major course and \$1.25 for a Minor course.

- b) Students taking two Majors or less will pay \$20 per Major and laboratory fees.
- c) *All tuition and laboratory fees are due and payable on or before the first day of each quarter. All fees are payable to the Registrar, Cobb Lecture Hall, Room A1.*

Registration is not complete until all University bills are paid. Those who fail to meet this obligation within the first five days of the Quarter are not regarded as members of the University. After the

fifth day, to secure membership in the University the consent of the Dean and the payment of a fee of \$5 for late registration will be required.

3. Deposits.

- a) A deposit of \$5 is required from each student to cover the cost of unnecessary damage in the University buildings, and of avoidable loss and breakage in the laboratories. The deposit must be made on entering the University. Deductions will be made from this deposit to cover the cost of articles not returned, or of damage to University property. Each student will be charged for damage or loss for which he is individually responsible, and for his *pro rata* share of damage or loss, the responsibility for which cannot be individually located. The balance will be refunded.
- b) Each student who procures a skeleton from the Osteological Laboratory will deposit \$12 for the same, which sum will be refunded when the skeleton is returned uninjured.

4. Microscopic and other laboratory apparatus and supplies.

- a) A compound microscope is required for most of the medical courses. Every student is strongly advised to purchase a good microscope, with an immersion lens, in order that he may become familiar with the same instrument which he will use after his graduation. Students not possessing a microscope may rent one from the University Supply Department, at a cost of \$1.50 per Quarter for a compound microscope, and \$1 additional for an immersion lens.
- b) Biological coupon tickets (\$2.50 or \$5) may be procured from the Registrar for the purchase, at the Supply Department, of dissecting instruments, microscope slides, covers, and slide-boxes, chemical apparatus (breakage), and such other appliances as may be required in the laboratory courses.
- c) Students taking courses in Chemistry are required to purchase Chemistry coupon tickets. Unused portions of coupon tickets are refunded.
- d) The necessary textbooks may be purchased at the University Press.
- e) All students taking courses in the Department of Physical Culture are required to provide themselves with a gymnasium suit for use in the gymnasium. The cost of such a suit is about \$4.

* For students who were in actual attendance on the medical courses during the Spring Quarter, 1904, or previous thereto, this fee is \$57.50 per Quarter.

ROOMS, BOARD, AND GENERAL EXPENSES

Nine dormitories have thus far been erected in the Quadrangles. Two of these are reserved for the students of the Divinity School, and four are for women. A University House is organized in each dormitory; each House has a Head, appointed by the President of the University, and a House Committee, elected by the members; also a House Counselor, selected from the Faculties of the University by the members of the House. The membership of the House is determined by election, and each House is self-governing under the general control of the University Council.

The cost of rooms in the dormitories is from \$20 to \$74 per Quarter of twelve weeks. This includes heat, light, and care. Each hall for women has separate dining-hall and parlors. The cost of table board in these halls is \$42 a Quarter.

All applications for rooms, or for information concerning rooms and board within or without the Quadrangles, should be made to the Registrar.

For further details, see special circulars as to rooms and board, which will be sent on application.

The following table will furnish an estimate of the annual expenses for thirty-six weeks of a student in the University, residing within the Quadrangles:

	Lowest	Average	Liberal
University bill, tuition*†	\$180.00	\$180.00	\$180.00
Rent and care of room	42.00	105.00	225.00
Board	100.00	126.00	225.00
Laundry	15.00	25.00	35.00
Textbooks and stationery	10.00	20.00	50.00
Total	\$347.00	\$456.00	\$715.00

It is believed that students who find it necessary to reduce expenses below the lowest of these estimates can do so. Rooms outside the Quadrangles, furnished, with heat, light, and care, may be obtained at from \$1 a week upward, the \$1 rate being easily secured where two students room together. Many places offer room and board from \$4.50 upward. The University Commons, Hutchinson Hall, one of the Tower group of buildings recently completed, offers to students twenty-one regular meals for \$4, and also service *à la carte*. During the Summer Quarter the Commons will be open to both men and women. There are student clubs which secure board at cost, the rate during the past year ranging from \$2.75 to \$3.50 a week. A list of approved boarding places outside the Quadrangles is kept on file at the Information Office, Cobb Lecture Hall, and information regarding them may there be obtained.

GENERAL INFORMATION FOR STUDENTS ENTERING THE JUNIOR AND SENIOR CLASSES AT RUSH MEDICAL COLLEGE

Attendance.—In order to be properly credited with attendance on any given Term or course, it is imperative that students be present at the opening of each Quarter. *After the second day of any Quarter no student can register except by special consent of the Dean, and the payment of \$5 late registration fee.*

Matriculation.—Each student matriculates on entering the College for the first time, but not for subsequent Quarters. *Matriculation may be accomplished by mail.*

Registration.—Each student registers at the beginning of each Quarter, or earlier if desired, by the payment of the tuition fee for the Quarter, and filing a registration card.

In case of early registration this card is retained at the Registrar's office, and *must be reclaimed by the student in person on the first or second day of the Quarter. If not reclaimed at that time, the student's registration for the Quarter will be canceled, and can only be restored by the Dean and the payment of \$5 late registration fee.*

Division of classes into groups.—In order to facilitate the arrangement of the classes for work in small groups, each class will be subdivided into groups of twelve students each, each group being designated by a letter. Students may be assigned to groups in the order of registration.

A student, upon entering the College at the begin-

* Medical students attending the first Quarter must pay the matriculation fee of \$5 to the University.

† This item is reduced to \$172.50 for medical students who matriculated on or before April 1, 1904.

ning of his first Quarter, will procure from the Registrar a blank application for admission, fill out the same carefully, and return it to the Registrar, with the matriculation fee, for which he will receive a receipt.

The student will then present himself to the Dean of Students, and exhibit to him the credentials for admission or for admission to advanced standing. (See Requirements for Admission to Advanced Standing, p. 19.)

The Dean will issue a card certifying admission to the proper class, and will advise respecting the courses of study to be taken.

COLLEGE FEES

Matriculation fee \$5, payable but once.

Tuition for each Quarter, \$60.

A discount of \$5 is made when the fee for three successive Quarters is paid in advance.

No student can be assigned to any College work until his fees are paid.

There has been a gradual increase in the tuition fee during the last few years, *but a student in continuous attendance (at least two Quarters each year) may complete the medical curriculum by paying the fees in vogue at the time of his matriculation.*

The semi-annual ticket for the County Hospital is \$5.

DEPOSITS

A deposit of \$5 is required from each student to cover the cost of unnecessary damage in the College buildings, and of avoidable loss and breakage in the laboratories. Deductions will be made from this deposit to cover the cost of articles not returned, or of damage to College property. Each student will be charged for damage or loss for which he is individually responsible, and for his *pro rata* share of damage or loss, the responsibility for which cannot be individually located. The deposit must be made on entering the College.

Members of the graduating class may rent from the College the cap and gown worn at the commencement exercises. These articles are to be returned in good order.

PHYSICIAN'S FEE

Graduates of this College are admitted to all lectures upon the payment of annual fee of \$5. Graduates of other colleges, attending the full course, will pay the fees of undergraduate students.

Special laboratory courses may be taken on the payment of a fee of \$20 for each Major course.

Graduates of this or other colleges who are visiting the city for a brief time are cordially welcomed, but are requested to procure complimentary tickets at the office.

No one is authorized to make any modification of the terms regarding fees. On financial matters the Registrar, who represents the Comptroller at the College office, should be consulted.

The right is reserved to make changes in the fees, curriculum, or in any other matter at any time.

SCHEDULE OF LECTURE HOURS

Schedules are issued from the College office giving the time and place of each exercise.

BOARD AND LODGING

Rooms may be obtained in the vicinity of the College at from \$1 to \$3 per week. Day board may be had at from \$2 to \$5 per week. Board and room together may be obtained at from \$3.50 to \$7 per week. A Bureau of Information is maintained at the College to which students may apply for directions as to desirable board and lodging.

Books and instruments.—The average annual cost of the required books and instruments varies from \$15 to \$20.

The following table will furnish an estimate of the expenses of a student for each year:

	Lowest	Average	Liberal
Tuition for each year	\$180.00	\$180.00	\$180.00
Board and room	126.00	180.00	252.00
Laundry	15.00	21.00	36.00
Books and instruments	15.00	21.00	36.00
Incidental expenses	45.00	75.00	105.00
Total	\$384.00	\$477.00	\$609.00

THE YOUNG MEN'S CHRISTIAN ASSOCIATION

A branch of the Young Men's Christian Association is in active operation at Rush Medical College, and the headquarters of the West Side Association are situated within a short distance of the College buildings. Membership in this Association, with the privilege of gymnasium, bathrooms, lecture courses, etc., may be obtained through the Rush Medical branch at reduced prices.

Further information in regard to the Association may be obtained by application to the Rush Medical branch of the Association.

THE QUARTER SYSTEM

The academic year of the University of Chicago and of Rush Medical College is divided into four Quarters. These are designated as the Summer, Autumn, Winter, and Spring Quarters, beginning, respectively, about June 17, and on the first of October, the first of January, and the first of April, each continuing for twelve weeks. A recess of one week occurs between the end of each Quarter and the beginning of the next following, excepting that there is no recess between the end of the Spring and the beginning of the Summer Quarter, and that there is a recess of one month at the close of the Summer Quarter.

THE MEDICAL CURRICULUM AS RELATED TO THE QUARTER SYSTEM

The general course of instruction in Rush Medical College requires four years of study in residence, with a minimum of attendance upon three Quarters of each year. These years are designated as the Freshman, Sophomore, Junior, and Senior years, respectively.

DEFINITION OF MAJOR AND MINOR

A Major course is defined as a didactic or recitation course, occupying 5 hours a week for one Quarter (a total of 60 hours), or a laboratory, practical, or clinical course, occupying 10 hours a week for one Quarter (a total of 120 hours). A Double Major occupies twice the number of hours per week for the Quarter.

A Minor course is a didactic or recitation course,

A student may begin his college work on the first day of any Quarter (see, however, p. 26, § 5), and may continue in residence for as many successive Quarters as he desires, and will receive credit for work accomplished. Attendance during all the four Quarters of the year is optional, but will not secure a time credit of more than one year in a medical school. At least forty-five months must elapse between the date of the first matriculation and the date of graduation. Under the restrictions imposed, this system does not conflict with the existing medical-practice acts, nor with the rulings of the various State Boards of Medical Examiners.

THE SUMMER QUARTER

Attention is directed to the special opportunities afforded for medical study in the Summer Quarter. The climate of Chicago is particularly well adapted to midsummer work. Instruction in all Departments is given in the Summer Quarter.

occupying 5 hours a week for one-half a Quarter, of six weeks; or a laboratory course, occupying 10 hours per week for a similar period. The value of each course in the following departmental statements is stated as a *Major* (Mj), a *Double Major* (DMj), a *Minor* (M), a *Double Minor* (DM), or the decimal fraction of a *Major* or *Minor*.

GRADUATE COURSES IN MEDICINE FOR PHYSICIANS AND ADVANCED STUDENTS

Special opportunities are afforded to physicians and graduate students at Rush Medical College and at the University for advanced and research work in Physics, Chemistry, Zoölogy and Embryology, Anatomy, Neurology, Physiology, Physiological Chemistry, and Pharmacology, and in Pathology and Bacteriology in Medicine, Surgery, Obstetrics, Gynecology, and in the other clinical departments. Research work may be conducted independently, or under the direction of an instructor in the department to which it belongs.

Physicians are admitted on payment of the matriculation fee, and payment of fees in proportion to the amount of work taken (see p. 23). The applicant's fitness for any course which he desires to take should

be ascertained by consultation with the head of the respective department.

Courses especially adapted to students of this class are outlined in pages 29 ff. of this *Bulletin*. Correspondence is invited in reference to special work other than the courses offered. It will be sufficient to address letters in reference to such courses to Rush Medical College.

Students desiring to engage in work leading to the degrees of Master of Science, Master of Arts, Master of Philosophy, or to the degree of Doctor of Philosophy, are requested to write for the *Circular of Information* of the Graduate Schools, the University of Chicago.

THE DEGREES OF S.B., A.B., AND PH.B.

I. MEDICAL WORK IN THE COURSES FOR THE BACHELOR'S DEGREE

The first two years' work in Medicine consists almost entirely of courses in pure science, which are open as electives to all candidates for a Bachelor's degree at the University, who have had the necessary preliminary work in science.

Medical work in the course for the degree of the Bachelor of Science.—A student who has completed the work of the Junior College of Science (two years) at the University, or the second year at a college of good standing, and whose credits are accepted as a full equivalent of the corresponding courses at the University, may enter the Senior College (first year) at the University and take the first two years' work in Medicine as the third and fourth years of his Bachelor's course; and provided he also takes, either in an extra Quarter or as extra work during three Quarters, the specified required courses (three courses in History and Philosophy) of the Senior College of Science, or has already taken these courses as electives in the Junior College, he may receive the degree of S.B. on the completion of the second year's work in Medicine.

For the completion of the required work for the degree of S.B. and of the first two years in Medicine, a student will need, altogether, four years, or four years and a quarter, after entering the Junior College (Freshman year), or two years, or two years and a quarter, after entering the Senior College (Junior year), depending on the amount of work he carries per Quarter and the nature of the work he presented for entrance.

Candidates for the S.B. degree who intend to study Medicine are strongly advised to take in their first two years at college (Freshman and Sophomore years) a large amount of work in Physics, Chemistry, and Biology, as giving the best foundation for the study of Medicine (see below recommended course of study for students preparing to study Medicine).†

Medical work in the course for the Bachelor of Arts or Philosophy.—A student who has completed the work of the Junior College of Arts or Literature (two years) at the University of Chicago, or the Sophomore year at a college of good standing, whose credits are accepted by the University as a full equivalent of the corresponding courses, may enter the Senior College (third year) at the University and take from one

to one and a half years' work in Medicine as part of his Bachelor's course, and, provided he also takes the required work of the Senior College of Arts or Literature (four courses), receive the degree of A.B. or Ph.B. on the completion of two years' work in college. The remainder of the medical work of the first two years may be taken after graduation, and with all the privileges of graduate students.

For the completion of the required work for the degree of A.B. or Ph.B., and of the first two years' work in Medicine, a student will need from four and a half to five years after entering the first year of the Junior College, or two and a quarter to three years after entering the Senior College (Junior year) of the University of Chicago.

Candidates for the A.B. or Ph.B. degree who intend to study Medicine are strongly advised to take in their first three years at college a large amount of work in Physics, Chemistry, and Biology, as giving the best foundation for the study of Medicine (see below recommended course of study for students preparing to study Medicine.)

For information in detail regarding the requirements for the Bachelor's degrees at the University of Chicago see pp. 66, 67 of the Annual Register.

II. COURSE OF COLLEGE STUDIES RECOMMENDED FOR STUDENTS PREPARING TO STUDY MEDICINE

1. The College studies which are recommended for students preparing to study Medicine are as follows: *† **English**, 3 Majors; **French or German**, 3 Majors (a reading knowledge in whichever of these languages is presented must be obtained from these courses and those offered for admission to College); **Mathematics**, 2 Majors; **History**, 2 Majors; **Philosophy**, 1 Major; **General Biology**, 1 Major; **Physics**, 2 or 3 Majors; **Chemistry**, 3 to 6 Majors; **General Chemistry**, **Qualitative Analysis**, **Organic Chemistry**; **Comparative Anatomy**, 1 or 2 Majors.

These eighteen (18) to twenty-four (24) Majors will require six (6) to eight (8) Quarters for completion. The History and Philosophy, or part of the Chemistry, may be taken during the time that the student is doing his first two years' work in Medicine.

2. For students who wish to devote three years in college in preparing for Medicine before entering on

*The required courses for the S.B. degree are given in bold-faced type; the courses recommended to be chosen as electives are given in common type.

†See also the article in the Medical Number of the *University Record*, May, 1903, which may be had on application.

medical work proper, the following courses are recommended for the choice of additional electives: *† Greek, 3 Majors; Calculus, 1 Major; Elementary Botany, 1 Major, Course 1; General Morphology of Thallophytes,

1 Major, Course 7; Introductory Physiology, 1 Major, Course 1; Physical Chemistry, 1 Major, half-Major Courses 31 and 32 or Course 23; Quantitative Chemical Analysis, 1 Major, Course 9; Physiography, 1 Major.

THE WORK OF THE MEDICAL COURSE FOR THE FRESHMAN AND SOPHOMORE YEARS

1. *Outline of the course.*—The course for the first two years' work in Medicine consists mainly of instruction in the fundamental medical sciences: Human Anatomy, Microscopic Anatomy, Histology, Neurology, and Embryology, Physiology, Physiological Chemistry, Toxicology, Pharmacology, Bacteriology, and Pathology. All of this work is given at the University of Chicago.

2. *Amount of work.*—The amount of work required is 18 Majors. A *Major* (Mj) is the unit of work, and consists of 5 hours per week in classroom throughout one Quarter (12 weeks) or the equivalent amount of laboratory work a week (a total of 60 hours' classroom work or the equivalent amount of laboratory work). Two hours of laboratory work are regarded as the equivalent of one hour of classroom work.

A *Minor* (M) consists of 5 hours a week in classroom throughout one Term (6 weeks) or the equivalent amount in the laboratory (a total of 30 hours of classroom work, or an equivalent amount of laboratory work).

A *Double Major* (DMj) course occupies twice as many hours per week as does a Major; a *half Major* course ($\frac{1}{2}$ Mj), one-half the time per week.

3. *The curriculum.*

a) Except in the case of certain students with special preparation (see below), all the work of the medical course is prescribed for those who wish to receive credit for the first two years' work in Medicine. For students entering after June 16, 1905, it consists of the following courses: *

(1) CHEMISTRY: The Chemistry of Medicinal Drugs, $\frac{1}{2}$ Major (19). ‡

(2) ANATOMY: $7\frac{1}{2}$ Majors, as follows:

Human Anatomy (Dissecting), 4 Majors (1, 2, 3, 4, 5).

Splanchnology, Histology, and Cytology, $1\frac{1}{2}$ Majors (10, 11).

Embryology, 1 Major (Zoölogy 20 or 21).

Neurology, 1 Major (Neurology 3).

(3) PHYSIOLOGY: $6\frac{1}{2}$ Majors, as follows:

Physiology, $3\frac{1}{2}$ Majors (12, 13, 14).

Physiological Chemistry, $1\frac{1}{2}$ Majors (20).

Pharmacology, $1\frac{1}{2}$ Majors (21).

(4) PATHOLOGY: $3\frac{1}{2}$ Majors, as follows:

Bacteriology, $1\frac{1}{2}$ Majors (1).

Pathology, 2 Majors (2A, 2B).

b) For students who matriculated in Medicine before June 16, 1905, the curriculum will be as published in last year's *Announcement*.

4. *Election of medical courses.*—Students are permitted to elect the work of the first two years of Medicine provided they have had the following preparation: 18 Majors (approximately two years) of college work in the University of Chicago, or an equivalent amount done in some other university or college of good standing. This work must have included 1 Major of Physics, 3 Majors of Inorganic Chemistry (or 2 Majors of Inorganic Chemistry in addition to one year of high-school Chemistry), 1 Major of Organic Chemistry, 1 Major of General Biology with laboratory work, and a reading knowledge of German and French.

In electing his work the student should bear in mind:

- That the right of election must be confirmed in writing in advance by the Dean.
- That his registration for each Quarter must receive the approval of the Dean.
- That the prerequisites for any course must have been satisfied before the course can be elected.
- That a minimum amount of work in the several branches is required for graduation in Medicine.

5. *Arrangement of courses.*—The order of courses has been arranged in such a way as to insure for the student beginning his medical studies with any single Quarter of the year, a complete annual course during any three consecutive Quarters; *but students are advised to begin their medical work proper with the Autumn Quarter, if possible.*

* Detailed statements concerning the courses are given below under the various departments of instruction. They should be consulted in every case in regard to equivalent courses which may be submitted for those whose numbers are given in the above table.

† See also the article in the Medical Number of the *University Record*, May, 1903, which may be had on application.

‡ The numbers in parentheses refer to the course numbers in the corresponding Department.

ARRANGEMENT OF COURSES FOR SIX QUARTERS

The following table shows the arrangement of the courses for the six Quarters of work comprised in the first two years of Medicine and the recommended sequence of studies. No student, however, is obliged to follow the order given, or to take full work in any Quarter. Credit will be given for every course satisfactorily completed.

FIRST NINE MAJORS OF WORK
(Freshman year of the Medical Course)
Autumn Quarter, 1905

Subject	Department	Course No.	Value
Splanchnology, Histology, and Cytology.....	Anatomy	10	1 Mj
Dissection (Human).....		1 or 2 and 4 and 5	2 Mj

The following other courses are given in this Quarter and are open to students with advanced standing and the necessary prerequisites: Bacteriology, Physiology, Analytical Chemistry, laboratory work in Organic Chemistry, Human Anatomy, and advanced work in all the Departments.

Winter Quarter, 1906

Subject	Department	Course No.	Value
Splanchnology, Histology, and Cytology.....	Anatomy	11	$\frac{1}{2}$ Mj
Dissection (Human).....	Anatomy	1, 2 or 3	1 Mj
Physiological Chemistry.....	Physiology	20	$1\frac{1}{2}$ Mj

Other courses given are: Analytical and Organic Chemistry, Physiology, Pathology, and advanced work in all the Departments.

Spring Quarter, 1906

Subject	Department	Course No.	Value
Embryology.....	Zoölogy	20	1 Mj
Physiology.....	Physiology	12	1 Mj
Neurology.....	Neurology	3	1 Mj

Other courses given are: Analytical and Organic Chemistry, Chemistry of Medicinal Drugs, Pathology, Pharmacology, and advanced work in all the Departments.

SECOND NINE MAJORS OF WORK
(Sophomore year of the Medical Course)
Autumn Quarter, 1906

Subject	Department	Course No.	Value
Bacteriology.....	Pathology	1	$1\frac{1}{2}$ Mj
Physiology.....	Physiology	13	$1\frac{1}{2}$ Mj

Other courses given are: Human Anatomy and advanced work in all the Departments.

Winter Quarter, 1907

Subject	Department	Course No.	Value
Physiology.....	Physiology	14	1 Mj
Pathology.....	Pathology	2A	1 Mj
Dissection.....	Anatomy	3	1 Mj

Other courses given are: Splanchnology, Physiological Chemistry, and advanced work in all the Departments.

Spring Quarter, 1907

Subject	Department	Course No.	Value
Pathology.....	Pathology	2B	1 Mj
Pharmacology.....	Physiology	21	$1\frac{1}{2}$ Mj
Chemistry of Medicinal Drugs..	Chemistry	19	$\frac{1}{2}$ Mj

Other courses given are: Embryology, Physiology, Human Anatomy, Neurology, and advanced work in all the Departments.

THE WORK OF THE CLINICAL YEARS

ELECTIVE AND OPTIONAL COURSES

A certain number of courses, especially in the Freshman and Sophomore years of study, are required as essential to securing credit in making up the four-year curriculum which must precede graduation. All of the courses offered in the Junior and Senior years are elective; that is, the student will be required to select from the list of elective courses a number sufficient to insure him credit for about eleven Majors each year.

The term "Major" is fully explained in another paragraph. By this system the student can select, not only his line of study, but also his teachers in such special lines; and can, further, so arrange his work that in successive years he can practically include all branches taught in the College. He will be required to present, however, a minimum amount of credit in each department. See requirements for Graduation (p. 19).

The Quarter system with Elective Courses is especially well adapted to the medical curriculum, and possesses the advantage of allowing each student to select a portion of his studies, and so to adapt his course to his tastes, his abilities, and his needs.

Optional courses, in addition to those described above, are offered to students who desire to add to the regular work as outlined in the requirements for graduation. These optional courses are designed to promote a higher scholarship, and to increase facilities for work in special departments.

FIFTH YEAR

Beginning with the session of 1905-6, a *fifth year* will be added to the curriculum which, for the present, will be optional.* The work of the year will be that of

(A) A fellowship in one of the departments of the College; or

(B) An internship in a hospital under the following conditions:

1. Each student taking such work will be under the constant supervision of the Faculty, by whom the

hospital in which the internship is taken must be approved.

2. The student must present evidence of thorough clinical work and, if possible, an exhaustive study of a selected group of clinical cases involving original work.

3. He will be required to pass a special examination at the end of the year.

On the successful completion of this fifth year he will receive the degree of Doctor of Medicine *cum laude*.

DEPARTMENT OF ANATOMY

INCLUDING COURSES IN DEPARTMENTS XXIII, ANATOMY; XXII, ZOÖLOGY; AND XXV, NEUROLOGY, THE UNIVERSITY OF CHICAGO

XXIII. THE DEPARTMENT OF ANATOMY

OFFICERS OF INSTRUCTION

LEWELLYS FRANKLIN BARKER, M.B., *Professor of Anatomy and Head of the Department of Anatomy.*

ROBERT RUSSELL BENSLEY, A.B., M.B., *Associate Professor of Anatomy.*

PRESTON KYES, A.M., M.D., *Assistant Professor of Anatomy.*

JOHN GORDON WILSON, A.M., M.B., *Instructor in Anatomy.*

GEORGE ELMER SHAMBAUGH, M.D., *Instructor in Anatomy of the Ear, Nose, and Throat.*

BASIL COLEMAN HYATT HARVEY, A.B., M.B., *Instructor in Anatomy.*

DANIEL GRAISBERRY REVELL, A.B., M.B., *Instructor in Anatomy.*

BURTON JESSE SIMPSON, S.B., M.D., *Instructor in Anatomy.*

BENSON AMBROSE COHOE, A.B., M.B., *Associate in Anatomy.*

FELLOWS

1905-1906

EMIL GOETTSCH, S.B.

JOHN SUNDWALL, Ph.B., S.B.

At Rush Medical College

CHARLES A. PARKER, M.D., *Assistant Professor in Surgical Anatomy.*

*As soon as this fifth year in an internship can be made a prerequisite for the degree of M.D., under the rulings of the medical examining boards of the several states, it is the purpose of the Faculty to extend the required curriculum to five years.

INTRODUCTORY

The general outline of the work provided for in courses is as follows: During the Autumn Quarter, Dissection, Osteology, Splanchnology, Histology, and Cytology are studied; in the Winter Quarter, Dissection is continued, as are also Splanchnology, Histology, and Cytology; in the Spring Quarter, Dissection, Neurology, and Embryology are offered, and optional courses in Advanced Microscopic Anatomy, Advanced Gross Anatomy, Structure of the Blood, etc., are available. The teaching is chiefly in the laboratory, under direction; but this may be supplemented by demonstrations, lectures, and recitations. During the Summer Quarter courses are offered in Osteology, Splanchnology, Histology, and Cytology, Histological Technique, Introductory Human Anatomy, Histogenesis, and Organogenesis. Special courses for physicians and advanced students are also offered in the Summer Quarter. These include courses in the Anatomy of the Eye, Ear, Nose and Throat, and Pelvic Viscera. Opportunities for research are offered every Quarter.

COURSES OF INSTRUCTION

- *1. **Dissection of Arm (Human).**—The student makes a complete dissection of all structures, using atlases and textbooks as guides. The work is largely independent. The laboratories for dissecting are open every day from 8:30 A.M. to 5:00 P.M. (Saturdays until 1:00 P.M.), during the Autumn, Winter, and Spring Quarters. A dissection must be completed in the Quarter in which it is undertaken. Mj. Autumn Quarter
Repeated in Winter and Spring Quarters
ASSOCIATE PROFESSOR BENSLEY, DRs. WILSON,
HARVEY, COHOE, AND OTHERS
†(Laboratory fee, \$5)
- 1A. **Lecture and Conference Course to accompany 1.**
½Mj. Autumn and Winter Quarters
DR. HARVEY
2. **Dissection of Leg and Abdomen (Human).**—The arrangements for this course are similar to those for Course 1. 1½Mj. Autumn Quarter
Repeated in Winter and Spring Quarters
ASSOCIATE PROFESSOR BENSLEY, DRs. WILSON,
HARVEY, COHOE, AND OTHERS
(Laboratory fee, \$5)
- 2A. **Lecture and Conference Course to accompany 2.**
½ Mj. Autumn and Winter Quarters.
3. **Dissection of Head, Neck, and Spinal Column (Human).**—The arrangements for this course are similar to those for Course 1.
Mj. Autumn Quarter
Repeated in Winter and Spring Quarters
ASSOCIATE PROFESSOR BENSLEY, DRs. WILSON,
HARVEY, COHOE, AND OTHERS
(Laboratory fee, \$5)
- 3A. **Lecture and Conference Course to accompany 3.**
½Mj. Autumn and Winter Quarters
ASSOCIATE PROFESSOR BENSLEY
4. **Dissection of Wall of Thorax and Thoracic Viscera (Human).**—The arrangements for this course are similar to those for Course 1.
½Mj. Autumn Quarter
Repeated in Winter and Spring Quarters
ASSOCIATE PROFESSOR BENSLEY, DRs. WILSON,
HARVEY, SIMPSON, AND OTHERS
Prerequisite: *Course 1.*
(Laboratory fee, \$2.50)
- 4A. **Lecture and Conference Course to accompany 4.**
½Mj. Autumn and Winter Quarters
DR. COHOE
5. **Dissection of Wall of Abdomen and Pelvis, and of Abdominal and Pelvic Viscera (Human).**—The arrangements for this course are similar to those for Course 1. ½ Mj. Autumn Quarter
Repeated in Winter and Spring Quarters
ASSOCIATE PROFESSOR BENSLEY, DRs. WILSON,
HARVEY, COHOE, AND OTHERS
Prerequisite: *Course 1 or 2.*
(Laboratory fee, \$2.50)
- 5A. **Lecture and Conference Course to accompany 5.**
½ Mj. Autumn and Winter Quarters.
DR. WILSON
6. **Human Osteology.**—A systematic study of the human skeleton will be undertaken. The bones of the human body will be drawn, or modeled in clay, in the laboratory. The structure of the composite bones will be considered from the comparative and embryological standpoints.
½Mj. Autumn Quarter
Lecture: Tues., 8:30.
Laboratory: Tues., 9:30-1:00.
DR. HARVEY
(Laboratory fee, \$1.25)

*Courses 1, 2, 3, 4, and 5 will also be given at the West Side during the Winter Quarter, 1906, by Assistant Professor Charles A. Parker. Hours: daily, 1:00-4:00 P.M.

†Medical students, paying the full medical tuition, are not required to pay any laboratory fees.

6A. **Human Osteology.**—Equivalent to Course 6.

M. First Term, Summer Quarter

Lecture: Tues. and Thurs., 8:00.

Laboratory: Tues. and Thurs., 9:00–12:30.

DR. SIMPSON

(Laboratory fee, \$1.25)

10. **Splanchnology, Histology, and Cytology.**—A brief course on the structure of the cell and elementary tissues will be followed by a study of the structure of the various viscera.

Mj. Autumn Quarter

Lectures: Mon., Fri., 9:30.

Laboratory: Mon., Fri., 10:30–1:00; Thurs.,

11:00–1:00.

ASSISTANT PROFESSOR KYES,

DRS. REVELL, SIMPSON, AND OTHERS

(Laboratory fee, \$1.25)

11. **Course 10 (continued).**

M. First Term, Winter Quarter

Lectures: Mon. and Tues., 9:30.

Laboratory: Mon. and Fri., 10:30–1:00; Tues.,

11:00–1:00.

ASSISTANT PROFESSOR KYES,

DRS. REVELL, SIMPSON, AND OTHERS

1½Mj. Summer Quarter

Lectures: Mon., Tues., Wed., 8:00.

Laboratory: Mon., Tues., Wed., 9:00–12:30.

DR. SIMPSON AND ASSISTANT

Prerequisite: *Course 10 or its equivalent.*

(Laboratory fee, \$1.25)

13. **Splanchnology, Histology, and Cytology (Advanced).**—In this course the student will undertake a thorough study of the structure of the important organs. A knowledge of the normal appearance and texture of the organs will be gained by the dissection of fresh specimens, the dissecting microscope being used to supplement the information gained by ordinary methods of dissection. Finally the compound microscope will be employed in the study of prepared sections.

1Mj. Winter Quarter

Lectures: Wed. and Fri., 9:30.

Laboratory: Wed. and Fri., 10:30–1:00; Thurs.,

9:30–12:00.

ASSISTANT PROFESSOR KYES,

DRS. REVELL, SIMPSON, AND OTHERS

(Laboratory fee, \$2.50)

4. **Histological Technique.**—The main methods of histological preparation. In the laboratory work students will prepare specimens by the various methods of fixing, hardening, staining, and sectioning, now in general use.

Mj. Spring Quarter

Lectures and Laboratory: Mon., Wed., Fri.,

2:00–5:00.

DR. REVELL

(Laboratory fee, \$2.50)

15. **Splanchnology.**—The topographical relations of the thoracic and abdominal viscera will be studied in transverse sections of the human subject. The knowledge thus gained will be supplemented by a study of the entire organs preserved in their natural shapes by formalin injections. The vessels, ducts, and natural cavities of organs will be studied by the various methods of injection, maceration, and corrosion. Finally the development of the form and relations of the organs will be studied by dissection of the foetus.

½Mj. Autumn Quarter

DR. COHOE

(Laboratory fee, \$1.25)

16. **Splanchnology.**—(Course 15 continued.)

½Mj. Winter Quarter

DR. COHOE

(Laboratory fee, \$1.25)

17. **Neurology.**—Elementary histology and microscopic anatomy of the nervous system and sense organs. See Department XXV, Courses 3 and 3A, etc.

18. **Vertebrate Embryology.**—Lectures, demonstrations, and laboratory work. See Department XXII, Courses 20 and 21.

PRIMARILY FOR THE GRADUATE SCHOOL

20. **Anatomy of the Ear and Nose.**—Special anatomy for practicing physicians and advanced students. This course will consist of laboratory work, lectures, and demonstrations of anatomical preparations.

DM. First Term, Summer Quarter

Lectures and Laboratory: Mon.–Thurs., 2:00–5:00.

DR. SHAMBAUGH

(Laboratory fee, \$2.50)

21. **Anatomy of the Eye.**—Special anatomy for practicing physicians and advanced students.

DM. First Term, Summer Quarter

Mon.–Thurs., 2:00–5:00.

DR. WILSON

(Laboratory fee, \$2.50)

22. **Anatomy of the Abdominal and Pelvic Viscera and Pelvic Floor.**—Special anatomy for practicing physicians and advanced students. Suited to those purposing to pay especial attention to gynecology.

Mj. Spring Quarter

DR. COHOE

(Laboratory fee, \$5.00)

23. **Anatomy of the Pharynx and Larynx.**—Special course for practicing physicians and advanced students, to consist of lectures and laboratory work on the development, gross and microscopic

anatomy of these organs. Special attention will be given to the nervous mechanism and its influence on function.

DM. First Term, Summer Quarter
Lectures and Laboratory work: Mon., Tues., Wed.,
Thurs., 9:30-12:30. DR. WILSON

(Laboratory fee, \$2.50)

24. **Anatomy of the Lymphatic System.**—A special study will be made by dissection, injection, etc., of the distribution of the various systems of lymphatic vessels.

Mj. Spring Quarter
DR. HARVEY

(Laboratory fee, \$2.50)

30. **Physiological Histology.**—The Organs of Respiration, Circulation, Absorption, Secretion, and Excretion will be studied from the standpoint of the relation of these structures to the functions they perform. The changes in the structure of the cells of the parenchyma of secretory and excretory organs as results of section and stimulation of their nerves of supply, of the action of drugs, and of normal physiological activity, will be studied. Especial attention will be paid to cellular micro-chemistry.

Mj. Spring Quarter
Lectures: Mon. and Fri., 2:00-3:00.
Laboratory: Mon. and Fri., 3:00-5:00; Wed., 2:00-5:00.
ASSOCIATE PROFESSOR BENSLEY

AND DR. REVELL

Prerequisites: *Courses 12 and 13 or their equivalents and a reading knowledge of French and German.*

(Laboratory fee, \$2.50)

31. **Hæmology.**—In this course instruction will be given in the various methods of examination of the blood, including the counting of the corpuscles, the estimation of hæmoglobin, the differential counting of white cells in dried and stained preparations, and studies in hæmolysis, cytolysis and anti-bodies.

Mj. Spring Quarter
ASSISTANT PROFESSOR KYES

(Laboratory fee, \$2.50)

32. **Histogenesis.**—The changes taking place in the elementary tissues will be followed from the blastogenic period to adult life. Certain tissues will be taken as types of the the general prob-

lems of development and will be studied and discussed from this point of view.

Mj or DMj. Summer Quarter
Lectures and Laboratory. DR. REVELL
(Laboratory fee, \$2.50)

33. **Organogenesis.**—Structural changes in certain organs will be followed in the development from the embryonic to the adult form.

M. Second Term, Summer Quarter
Lectures and Laboratory: Mon., Wed., 8:30-12:00.
DR. WILSON

Prerequisite for Courses 32 and 33: *A knowledge of the main facts of Embryology, Splanchnology, and Histology.*

[Laboratory fee, \$1.25]

34. **Advanced Histology and Cytology.**—The solution of various problems in connection with tissues and cells will be undertaken. Especial attention will be paid to experimental methods.

Mj. Spring Quarter
DR. COHOE

Prerequisite: *Courses 10 and 11.*

(Laboratory fee, \$2.50)

35. **Mammalian Osteology.**—The skeletal structures of a number of representative mammals will be studied.

Mj. Spring Quarter
DR. HARVEY

(Laboratory fee, \$2.50)

40. **Advanced Work.**—Opportunities are offered for advanced work in all branches of anatomy.

1 to 3Mj

ASSOCIATE PROFESSOR BENSLEY
AND ASSISTANT PROFESSOR KYES
(Laboratory fee, \$2.50)

41. **Research Work.**—The laboratory is equipped for the original investigation of anatomical problems. Suitably trained and endowed students, or physicians who have the time to do such work, will be encouraged to undertake it.

2 to 4Mj

ASSOCIATE PROFESSOR BENSLEY
AND ASSISTANT PROFESSOR KYES

42. **Seminar.**—A limited number of students can, by special arrangement, be admitted to a seminar in which subjects of current interest in Gross or Microscopic Anatomy will be discussed.

1 to 2Mj. Autumn and Winter Quarters
Fri., 4:00. ASSOCIATE PROFESSOR BENSLEY

XXII. THE DEPARTMENT OF ZOÖLOGY

OFFICERS OF INSTRUCTION

CHARLES OTIS WHITMAN, PH.D., LL.D., *Professor and Head of the Department of Zoölogy; Curator of the Zoölogical Museum.*

FRANK RATTRAY LILLIE, PH.D., *Associate Professor of Embryology; Assistant Curator of the Zoölogical Museum.*

CHARLES MANNING CHILD, PH.D., *Assistant Professor of Zoölogy.*

WILLIAM LAWRENCE TOWER, S.B., *Instructor in Embryology.*

REUBEN MYRON STRONG, PH.D., *Associate in Zoölogy.*

SAMUEL WENDELL WILLISTON, M.D., PH.D., *Head of the Department of Palæontology; Lecturer on Evolution of Vertebrates (1905-6).*

HENRY HIGGINS LANE, A.M., *Laboratory Assistant in Zoölogy.*

VICTOR ERNEST SHELFORD, S.B., *Laboratory Assistant in Zoölogy.*

ROBERT WILHELM HEGNER, S.M., *Laboratory Assistant in Zoölogy.*

FELLOWS

1905-1906

MARY BLOUNT, S.B.

CHARLES ALBERT SHULL, S.B.

THOMAS CALDERWOOD STEPHENS, A.B.

COURSES OF INSTRUCTION

JUNIOR COLLEGE COURSES

1. **Elementary Zoölogy.**—The lectures and laboratory work include studies of representative animals and of general zoölogical topics.

Mj. Autumn Quarter

Lectures: Mon., Wed., Fri., 4:00.

Laboratory: Mon., Wed., Fri., 2:00-4:00.

DR. STRONG

2. **General Biology.**—Lectures and laboratory work dealing with topics of a general biological nature, such as: the classification of the biological sciences; protoplasm; the cell; structure and activities of types of animals.

Mj. Winter Quarter

Lectures: Mon., Wed., Fri., 4:00.

Laboratory: 6 hrs. a week, afternoons.

DR. STRONG

[Not given in Winter Quarter, 1906]

DM. First Term, Summer Quarter

Lectures: Mon.-Fri., 11:30.

Laboratory: 12 hrs., 8:00-11:30.

DR. STRONG

3. **Field Zoölogy.**—Introductory Course. Study of the more common animals of the region about Chicago, including work on life-histories, habits, classification, and distribution.

Mj or DMj. Spring Quarter

Lectures: Wed., 2:00.

Laboratory or field-work: Mon. and Tues., 2:00-4:00, and Saturday morning.

ASSISTANT PROFESSOR CHILD

DM. First Term, Summer Quarter

Lectures: Mon. and Fri., 1:30.

Laboratory or field-work: Afternoons and Saturday morning, 16 hours per week.

ASSISTANT PROFESSOR CHILD

5. **Invertebrate Zoölogy.**—Study of representatives of the lower invertebrate groups, Protozoa, Porifera, Coelentera, Platyhelminthes, and Nemathelminthes; including the anatomy of the adult and the life-history, together with some discussion of habits and distribution.

Mj. Winter Quarter

Lectures: Tues., Thurs., 2:00.

Laboratory: Mon., Wed., Fri., 2:00-4:00.

DR. STRONG.

Prerequisite: *Course 1 or 2.*

6. **Invertebrate Zoölogy** (Course 5 continued).—Study of representatives of the higher invertebrate groups. The subject-matter of this course differs in successive years, consideration of the Echinoderms, Molluscs, Annelids, and allied groups alternating with consideration of the Arthropods.

Mj. Spring Quarter

Lectures and Laboratory as in Course 5.

ASSISTANT PROFESSOR CHILD

Prerequisite: *As in Course 5.*

7. **Invertebrate Zoölogy.**—Study of representatives of the principal invertebrate groups, including adult anatomy and life-history, habits and distribution.

DM. First Term, Summer Quarter.

Lectures: Mon., Tues., Wed., Thurs., 8:00.

Laboratory: Daily, 9:00-12:00; 12 hrs., per week.

ASSISTANT PROFESSOR CHILD

8. **The Evolution of the Domestic Animals.**—A series of illustrated lectures upon the origin, evolution, and natural history of the Domestic Animals and other chief types of Mammals.

M. First Term, Summer Quarter

Lectures: Daily; hour to be arranged.

PROFESSOR WILLISTON

9. **Vertebrate Zoölogy.**—Study of representatives of the principal vertebrate groups, including general Anatomy, life-histories, habits, and distribution. The laboratory work consists of dissection of typical representatives of several groups.

DM. Second Term, Summer Quarter

Lectures: Mon.-Fri., 8:00.

Laboratory Work: 9:00-12:00; 12 hrs. per week.

MR. LANE

[Not given in 1905]

10. **Comparative Anatomy and Zoölogy of the Vertebrates.**—A laboratory study of types, with dissection, followed by lectures with demonstrations of the comparative anatomy of organs, classification, range, distribution, and evolution of the vertebrates, living and extinct.

Mj. Autumn Quarter; Mon.-Fri., 3:00-5:00

PROFESSOR WILLISTON

Prerequisite: *Course 2 or equivalent.*

11. **Comparative Anatomy and Zoölogy of the Vertebrates.**—Continuation of Course 10 (Reptiles, Birds).

Mj. Winter Quarter; Mon.-Fri., 3:00-5:00

PROFESSOR WILLISTON

12. **Comparative Anatomy and Zoölogy of the Vertebrates.**—Continuation of Course 11; (Mammals).

Mj. Spring Quarter; Mon.-Fr., 3:00-5:00

PROFESSOR WILLISTON

13. **Field Zoölogy (Advanced Course).**—Study of the fauna of the region about Chicago, with special reference to the relations between animals and their environment. Each student is expected to devote a considerable portion of his time to the study of some special problem connected with the work of the course, and to present the

results of his work in the form of a thesis at the end of the course.

Mj or DMj

Lecture: Fri., 2:00.

ASSISTANT PROFESSOR CHILD

DM. Second Term; Summer Quarter

Lectures: Mon. and Fri., 1:30.

Laboratory or field work: Afternoons and Saturday morning.

MR. SHELFORD

14. **Studies of Birds.**—This course will include studies of the structures, habits, and colors of birds.

Mj or DMj. Spring Quarter

Lectures: Tues. and Thurs., 9:30.

Laboratory: Four hrs., as arranged.

Field-work: Saturdays, or early mornings, as arranged.

DM. First Term; Summer Quarter

Lectures: Mon.-Thurs., 3:30.

Laboratory: Eight hrs.

Field work: Saturdays.

DR. STRONG

16. **Cytology.**—Morphology and physiology of the cell; cell-division; cytological theories; the cell and the organism; theory and practice of fixation and staining. The lectures will be supplemented by collateral reading and discussions.

Mj or DMj. Spring Quarter

Lectures: Three times a week; hours to be arranged with class.

Laboratory: Afternoons; 8-hrs. a week.

ASSISTANT PROFESSOR CHILD

[To be given in 1907]

17. **Regeneration.**—The lectures will deal with the principal facts and problems of regeneration and of form-regulation in general, and will be supplemented by collateral reading and discussions. In the laboratory typical cases of regeneration will be studied. Mj or DMj. Spring Quarter

Lectures: Three times a week; hours to be arranged with class.

Laboratory: Afternoons; 8 hrs. a week.

ASSISTANT PROFESSOR CHILD

NOTE.—Courses 16 and 17 will be given in alternate years.

18. **Physiology of Development.**—The lectures will deal with general and experimental embryology, and with the mechanics of embryonic development, including: the history of the germ-cells; fertilization; the rôle of cell-division in development; intra-cellular differentiation; correlative differentiation of organs. The laboratory work

will be on the early development of selected types of Invertebrates. Mj or DMj. Autumn Quarter

Lectures: Mon., Wed., Fri., 8:30.

Laboratory: 6 or 16 hours a week.

By special permission the lectures alone may be taken as $\frac{1}{2}$ Mj.

ASSOCIATE PROFESSOR LILLIE

Prerequisite: *Courses 1 or 2 and 19 or 20; Course 16 is desirable.*

19. **Vertebrate Embryology.**—Fishes, amphibia, and reptilia. Lectures, demonstrations, and laboratory work. Mj or DMj. Winter Quarter

ASSOCIATE PROFESSOR LILLIE

Lectures: Mon., Wed., Fri., 8:30.

Laboratory: 6 or 16 hours a week.

20. **Vertebrate Embryology.**—Birds and mammals. Lectures, demonstrations, and laboratory work.

Mj or DMj. Spring Quarter

Lecture: Fri., 8:30.

Laboratory:

Sec. a: Mon. and Tues., 2:00–5:00, and Wed., 11:00–1:00.

Sec. b: Wed. 11:00–1:00, and Thurs. and Fri., 2:00–5:00.

ASSOCIATE PROFESSOR LILLIE AND MR. TOWER

Prerequisite: *Courses 1 or 2, and Anatomy 10 and 11, or their equivalents.*

NOTE.—Course 20 and the two courses in Vertebrate Anatomy constitute a course in Vertebrate Morphology running through the year, and may well be taken together.

21. **Embryology.**—Lectures, demonstrations, and laboratory work.

Mj. Summer Quarter

Lectures: Mon., Wed., and Fri., 11:30.

Laboratory: Mon., Wed., and Fri., 8:00–11:30; 9 hrs. per week. MR. LANE

22. **Animal Evolution.**—A course of lectures dealing with original studies, together with the history of the idea of evolution, the rise of modern ideas (Buffon, St. Hilaire, and Lamarck), the Darwinian period; current theories of evolution. Reading, reports, and theses required.

DM. Second Term, Summer Quarter

Lectures: Mon., Tues., Wed., Thurs., 3:30.

MR. TOWER

Prerequisite: *Course 2 or its equivalent.*

23. **Marine Biology** at the Marine Biological Laboratory at Woods Holl, Mass. Credit is given at the University of Chicago for courses taken at this laboratory. DMj. Summer Quarter

PROFESSOR WHITMAN AND
ASSOCIATE PROFESSOR LILLIE

XXV. THE DEPARTMENT OF NEUROLOGY

OFFICERS OF INSTRUCTION

HENRY HERBERT DONALDSON, Ph.D., *Professor and Head of the Department of Neurology.*

SHINKISHI HATAI, Ph.D., *Assistant in Neurology.*

ELIZABETH HOPKINS DUNN, M.D., *Research Assistant in Neurology.*

KATASHI TAKAHASHI, *Technical Assistant in Neurology.*

FELLOW

1905-6

STEPHEN WALTER RANSON, S.B., S.M.

INTRODUCTORY

The courses here offered are intended to furnish an account of the Histology, Microscopic Anatomy, and Architecture of the Nervous System such as will be required by students of Anatomy and those preparing for Medicine or Psychology, and also to give the opportunity both for the investigation of new problems and for a critical discussion of current work in Neurology. Course 3 forms part of the required work in Histology and Microscopic Anatomy for those taking the first two years' work in Medicine. The Neurological Journal Club—open to Graduate students—meets every Monday afternoon.

For each Major course requiring laboratory work the laboratory fee is \$2.50. For Medical students this fee is included in the quarterly tuition fees.

COURSES OF INSTRUCTION

1. **The Architecture of the Central Nervous System.**
Mj. Autumn Quarter
Lectures: Mon. and Tues., 9:30.
Laboratory: Thurs. and Fri., 2:00-4:00.
PROFESSOR DONALDSON AND DR. HATAI
Prerequisite: *Microscopic Anatomy*.
(Laboratory fee, \$2.50)
2. **The Growth of the Brain and its Physical Characters as Related to Intelligence.**
Mj. Winter Quarter
Lectures: Mon. and Tues., 9:30.
Laboratory: Thurs. and Fri., 2:00-4:00.
PROFESSOR DONALDSON AND DR. HATAI
Prerequisite: *Microscopic Anatomy*.
(Laboratory fee, \$2.50)
3. **Gross and Microscopic Anatomy of the Human Central Nervous System and Sense Organs.**
This is a required course for Medical students.
Mj. Spring Quarter
Lectures: Mon. and Tues., 8:30.
Recitation: Wed., 8:30.
Laboratory: Mon. and Tues., 9:30-1:00
PROFESSOR DONALDSON,
DR. HATAI, AND ASSISTANTS
Prerequisite: *Microscopic Anatomy*.
(Laboratory fee, \$2.50)
- 3A. **Gross and Microscopic Anatomy of the Human Central Nervous System and Sense Organs**
(repeated). See Course 3.
DM. First Term, Summer Quarter
Lectures: Mon.-Thurs., 8:00.
Laboratory: 10 hrs. a week.
PROFESSOR DONALDSON AND DR. HATAI
Prerequisite: *Microscopic Anatomy*.
(Laboratory fee, \$2.50)
11. **Physical and Chemical Characters of the Nervous System in Relation to Histological Technique.** DM. Second Term, Summer Quarter
Lectures: Mon.-Thurs., 8:00.
Laboratory: 10 hrs. a week. DR. HATAI
- 11A. **Physical and Chemical Characters of the Nervous System in Relation to Histological Technique.** $\frac{1}{2}$ Mj. Autumn Quarter
Lectures and Laboratory work.
Hours to be arranged. DR. HATAI
12. **Cytology of the Neurone.** $\frac{1}{2}$ Mj. Winter Quarter
Lectures and Laboratory work.
Hours to be arranged. DR. HATAI
- 4, 5, 6, 6A. **Seminar.**—The purposes of the Seminar are threefold: (a) initiation into the methods of research; (b) The history of the guiding conceptions in Neurology; (c) Discussion of such literature as is too technical for presentation at a general Journal Club.
 $3\frac{1}{2}$ Mj. Summer, Autumn, Winter, and Spring Quarters. 2 hrs. a week.
Autumn, Winter, and Spring Quarters, 3:00-5:00
PROFESSOR DONALDSON
Admission to the Seminar is granted only after consultation with the Head of the Department.
- 7, 8, 9, 10. **Research Courses: The Study of Neurological Problems.**
4Mj. Autumn, Winter, Spring, and First Term of Summer Quarters.
PROFESSOR DONALDSON
Second Term. Summer Quarter
DR. HATAI
Prerequisite: *A knowledge of the main facts of Neurology.*

II. DEPARTMENT OF PHYSIOLOGY

(AT THE UNIVERSITY DEPARTMENT XXIV, INCLUDING PHYSIOLOGICAL CHEMISTRY AND PHARMACOLOGY)

OFFICERS OF INSTRUCTION

GEORGE NEIL STEWART, D.Sc., M.D., *Professor and Head of the Department of Physiology.*
 ALBERT PRESCOTT MATHEWS, Ph.D., *Associate Professor of Physiological Chemistry.*
 DAVID JUDSON LINGLE, Ph.D., *Assistant Professor of Physiology.*
 CHARLES CLAUDE GUTHRIE, M.D., *Instructor in Physiology.*
 ANTON JULIUS CARLSON, Ph.D., *Associate in Physiology.*
 SAMUEL A. MATTHEWS, M.D. *Associate in Pharmacology.*
 HUGH McGUIGAN, S.B., *Assistant in Physiological Chemistry.*
 ALBERT WOELFEL, M.D., *Assistant in Physiology.*
 THOMAS MATHESON WILSON, S.M., *Assistant in Physiology.*

WILLIAM IRVING, *Mechanical Assistant.*

FELLOWS

1905-1906

FRANK HENRY PIKE, A.B.

RUSH LESLIE BURNS, S.B.

INTRODUCTORY

Courses 12, 13, 14, 20, and 21 are required for medical students. All special and research courses are open to students who have had sufficient preliminary training.

COURSES OF INSTRUCTION

JUNIOR COLLEGE COURSES

1 and 2. **Elementary Physiology.**—These courses are intended to familiarize the student with the elementary facts concerning the structure and functions of the human body. They are not for medical students but are strongly recommended to College students, as a necessary part of an education. Students are urged to take both courses. No prerequisites are demanded for Course 1. Course 1 is prerequisite to Course 2.
 1.* *Physiology of Circulation, Respiration, Digestion and Absorption.*

Lectures: Three a week.

Laboratory: 4 hours a week.

Mj. Autumn Quarter

ASSISTANT PROFESSOR LINGLE

Repeated Spring Quarter.

ASSISTANT PROFESSOR LINGLE

Given Summer Quarter. DM. First Term.

2.* *Physiology of Metabolism, Muscles, the Nervous System and Senses.* A continuation of Course 1.

Lectures: Three a week,

Laboratory: 4 hrs. a week.

Mj. Winter Quarter

ASSISTANT PROFESSOR LINGLE AND DR. —

Given Summer Quarter. DM. Second Term

SENIOR COLLEGE COURSES

†12. **Physiology of Blood, Circulation, and Respiration.** Mj. Spring Quarter

Lectures: Two a week. PROFESSOR STEWART

Recitations and conference: One hr. a week.

ASSISTANT PROFESSOR LINGLE,

DRS. GUTHRIE AND CARLSON

Laboratory: 6 hrs. a week.

ASSISTANT PROFESSOR LINGLE,

DRS. GUTHRIE, CARLSON, AND WOELFEL

Prerequisite: *Physiological Chemistry.*

(Laboratory fee, \$2.50)

†13. **Physiology of Digestion, Metabolism, Absorption, Secretion, Muscles and Heat.**

1½ Mj. Autumn Quarter

Lectures: Three a week. PROFESSOR STEWART

Recitations: Two hrs. a week,

ASSISTANT PROFESSOR LINGLE,

DRS. GUTHRIE AND CARLSON

Laboratory: 7 hrs. a week.

DRS. GUTHRIE, CARLSON, AND WOELFEL,

AND MESSRS. WILSON, PIKE, AND BURNS

Repeated Summer Quarter, 1905.

PROFESSOR STEWART AND DR. GUTHRIE

Prerequisite: *Physiology 12.*

(Laboratory fee, \$2.50)

*Either the lectures or the laboratory work of 1 and 2 may be taken as a Major in the Summer Quarter. The laboratory work in this Quarter will be specially adapted to teachers.

†One of the Courses 12, 13, or 14 will be repeated in the Summer Quarter by Dr. Guthrie. The choice will depend upon the requirements of the majority of the applicants.

- †14. **Physiology of the Nervous System and the Senses.** Mj. Winter Quarter
Lectures: Two a week. PROFESSOR STEWART
Recitations: One a week.

ASSISTANT PROFESSOR LINGLE

DRS. CARLSON AND WOELFEL

Laboratory: 6 hrs. a week.

ASSISTANT PROFESSOR LINGLE

AND DR. GUTHRIE

Prerequisite: *Neurology 3*.

(Laboratory fee, \$2.50)

15. **Special Physiology of Mammals.**—Including the repetition of experiments not given in the general courses.

Saturdays, 8:00–12:30

½ Mj. Summer Quarter

DR. GUTHRIE

Repeated Autumn Quarter.

Prerequisite: *Physiology 12 or equivalent*.

(Laboratory fee, \$1.25)

16. **General and Comparative Physiology.**—The phenomena of irritability; the effects of external conditions on protoplasm. Mj. Spring Quarter
DR. CARLSON

Prerequisite: *A good knowledge of Chemistry and Biology*.

(Laboratory fee, \$2.50)

20. **Physiological Chemistry.**—The chemistry of protoplasm; of the foods; of digestion, metabolism, and the excretions.

1½ Mj. Winter Quarter

Lectures: Three a week.

ASSOCIATE PROFESSOR MATHEWS

Recitations: Two a week.

Laboratory: 7 hrs. a week.

ASSOCIATE PROFESSOR MATHEWS,
DR. S. A. MATTHEWS, AND MR. MCGUIGAN

Prerequisite: *General Chemistry, elementary Organic Chemistry. Quantitative Analysis is strongly recommended.*

(Laboratory fee, \$3.75)

21. **Pharmacology.** 1½ Mj. Spring Quarter

Lectures: Three a week.

ASSOCIATE PROFESSOR MATHEWS

Recitations: Two a week.

Laboratory: 7 hrs. a week.

ASSOCIATE PROFESSOR MATHEWS,
DR. S. A. MATTHEWS, AND MR. MCGUIGAN

Given Summer Quarter, 1905, as 1½ Mj

DR. S. A. MATTHEWS

Prerequisites: *Physiology 12, 13, 14, and 20*.

(Laboratory fee, \$3.75)

PRIMARILY GRADUATE COURSES

30. **The Cells and Liquids of the Body in Their Physico-Chemical Relations.**

Mj. Autumn Quarter

PROFESSOR STEWART

Repeated in the Summer Quarter.

PROFESSOR STEWART AND MR. WILSON

(Laboratory fee, \$2.50)

31. **Special Physiology of the Circulation.**

Mj. Winter Quarter

PROFESSOR STEWART AND DR. GUTHRIE

(Laboratory fee, \$2.50)

32. **Animal Electricity.**

Mj. Spring Quarter

PROFESSOR STEWART

(Laboratory fee, \$2.50)

36. **The Action of Drugs on Mammals.**—An experimental course to a small number of students only.

Mj. Autumn Quarter

DR. S. A. MATTHEWS

38. **The Chemistry of Protoplasm.**—(Advanced Course.) The course will include the isolation of the nucleus, proteids, and other important constituents of the proteids, and other important constituents of the cell.

Mj. Autumn Quarter

ASSOCIATE PROFESSOR MATHEWS

41. **Seminar.**—At times to be announced.

PROFESSOR STEWART

42. **Research Work in Physiological Chemistry.**

Mj or DMj. Throughout the year

ASSOCIATE PROFESSOR MATHEWS

AND DR. S. A. MATTHEWS

43. **Research Work in Pharmacology.**

Mj or DMj. Throughout the year

ASSOCIATE PROFESSOR MATHEWS

AND DR. S. A. MATTHEWS

44. **Research Work in Physiology.**

Mj or DMj. Throughout the year

PROFESSOR STEWART AND OTHERS

51. **General and Comparative Physiology** at the Marine Laboratory, at Wood's Holl, Mass. Credit is given by the University of Chicago for courses taken at this laboratory.

DMj. Summer Quarter

ASSOCIATE PROFESSOR MATHEWS

AND DR. CARLSON

III. DEPARTMENT OF CHEMISTRY, MATERIA MEDICA, AND TOXICOLOGY*† (INCLUDING MEDICAL PHARMACY; AND COURSES IN DEPARTMENT XX, CHEMISTRY, AT THE UNIVERSITY OF CHICAGO)

OFFICERS OF INSTRUCTION AT RUSH MEDICAL COLLEGE

PROFESSOR WALTER S. HAINES, A.M., M.D., *Head of the Department.*

ASSISTANT PROFESSORS JEROME H. SALISBURY, A.M., M.D., JACOB ALLEN PATTON, B.S., M.D.

ASSOCIATE FRANK G. MASON, Ph.G., M.D.

ASSISTANT HERBERT G. VAUGHAN, M.D.

OFFICERS OF INSTRUCTION AT THE UNIVERSITY OF CHICAGO

JOHN ULRIC NEF, Ph.D., *Professor and Head of the Department of Chemistry.*

ALEXANDER SMITH, Ph.D., *Professor and Director of General and Physical Chemistry.*

JULIUS STIEGLITZ, Ph.D., *Professor of Chemistry.*

HERBERT NEWBY McCOY, Ph.D., *Assistant Professor of Physical Chemistry.*

JOHN CHARLES HESSLER, Ph.D., *Instructor in Chemistry.*

LAUDER WILLIAM JONES, Ph.D., *Instructor in Analytical Chemistry.*

THOMAS B. FREAS, A.B., *Curator.*

WILLIS B. HOLMES, Ph.D., *Associate in Chemistry.*

EDITH ETHEL BARNARD, S.B., *Assistant in Quantitative Analysis.*

OSCAR ECKSTEIN, Sc.D., *Research Assistant in Chemistry.*

ELLIOT SNELL HALL, Ph.D., *Research Assistant in Chemistry.*

WALTER STANLEY HAINES, A.M., M.D., *Professor of Chemistry, Pharmacy, and Toxicology, Rush Medical College; Professorial Lecturer on Toxicology.*

FELLOWS

1905-1906

WAYLAND BLAIR CLARK, S.B., S.M.

HENRY MAX GOETTSCH, S.B., S.M.

WILLIS STOSE HILPERT, S.B.

ANDREW FRIDLEY McLEOD, A.B.

HERMAN IRVING SCHLESINGER, S.B.

INTRODUCTORY

In this department are offered (1) courses which are suited for providing the preparation in the science of Chemistry that is indispensable to the study and practice of Medicine; (2) courses which afford the student an opportunity for acquiring a more thorough and complete preparation for following intelligently the rapid advances in modern physiology and other medical subjects; and (3) courses which are indispensable for those who intend to assist in this advance by devoting themselves in part or exclusively to research in medical subjects, after completing their medical course.

*For courses in *Physiological Chemistry* see the Department of Physiology.

†The courses in Physics recommended to undergraduate students preparing to study medicine are the following courses offered in the Department of Physics:

1. **General Physics.**—A general course in Physics in which mechanics, molecular physics, and heat are presented mainly from the experimental standpoint.

10 hrs. a week. Mj. Each quarter

Summer Quarter; 8:00-10:00.

MR. HOBBS
DR. GALE

Autumn Quarter; 8:30-10:30; 11:00-1:00

ASSISTANT PROFESSOR MANN

Winter Quarter; 11:00-1:00.

MR. HOBBS
DR. GALE

Spring Quarter; 8:30-10:30.

Prerequisite: (*Entrance*) *Physics, or both Majors of Course 0 and Plane Trigonometry.*

2. **General Physics.**—A continuation of Course 1 covering the subjects of electricity and light.

10 hrs. a week. Mj. Summer Quarter; 2:00-4:00

ASSISTANT PROFESSOR MILLIKAN

Repeated. Mj. Winter Quarter; 8:00-10:00.

ASSISTANT PROFESSORS MILLIKAN AND KINSLEY

Prerequisite: *General Physics 1.*

3. **General Physics.**—A course of lectures and demonstrations intended to complete a year's work in Junior College Physics. The most important principles of Physics not treated in Courses 1 and 2 are presented from the lecture standpoint.

5 hrs. a week. Mj. Summer Quarter; 9:30

ASSISTANT PROFESSOR MANN

Mj. Spring Quarter; 9:30

ASSISTANT PROFESSOR MILLIKAN

with occasional lectures by PROFESSOR MICHELSON

Prerequisite: *General Physics 1.*

More advanced courses are described in the Departmental Announcements of the University.

REQUIREMENTS AND ELECTIVES IN CHEMISTRY

General and Organic Chemistry are now a prerequisite to the medical courses proper. The necessary knowledge of the subject can be obtained from Chemistry 1, 2, 3, and 4, or Admission Chemistry and 1B and 2B and 4 or 1A and 2A (Summer Quarter) 3 and 4.*

Organic Chemistry, 17 (Mj), Summer Quarter, or 14 and 15 (2Mj) may be substituted for Course 4.

Students who are preparing for the study of Medicine, and who are candidates for a Bachelor's degree in the University of Chicago, are strongly recommended to take at least two Majors more of Chemistry, viz., Qualitative Analysis, 6, and Quantitative Analysis, 8 (see p. 25, II, 1).

Candidates for a Bachelor's degree who expect to do research work in Physiology or allied medical subjects may with advantage elect further courses from the following: Quantitative Analysis, 8; Organic Chemistry, 14, 15, and 16; Physical Chemistry, 28A and 28B; or Advanced General Chemistry, 23 (see page 26, II, 2).

COURSES OF INSTRUCTION

PRIMARILY FOR THE JUNIOR COLLEGES

1. **Elementary General Chemistry.**

Classroom, 3 hrs. a week, 12:00.

Laboratory, 6 hrs. a week.

Mj. Autumn Quarter

PROFESSOR SMITH

Prerequisite: *Preparatory Physics*.

2. **General Inorganic Chemistry I.**—Continuation of Course 1 or of Preparatory Chemistry.

Classroom 3 hrs. a week, 8:30.

Laboratory, 6 hrs. a week.

Mj. Autumn Quarter

ASSISTANT PROFESSOR MCCOY

AND DR. HOLMES

Hours as in Course 1.

Mj. Winter Quarter

PROFESSOR SMITH

3. **General Inorganic Chemistry II.**—Continuation of Course.

Classroom, 3 hrs. a week, 8:30.

Laboratory, 6 hrs. a week.

Mj. Winter Quarter

Hours as in Course 1.

Mj. Spring Quarter

PROFESSOR SMITH

1, 2, 3 are consecutive courses. Separate credit is given for each. But students are not advised to take one course only. Students offering preparatory Chemistry for admission take Course 2. Whenever the preparation justifies it, qualitative analysis may be substituted for 3.

The aim of the continuous Courses 1, 2, 3 will be to give a definite idea of the fundamental principles of chemistry, and not to overburden the student with a mass of unconnected facts. The conception of chemical equilibrium and the modern theory of solutions are freely used. The lectures will be experimental to a considerable extent.

The lectures and classroom work of 1, 2, and 3 may be taken by graduate students without the laboratory work or laboratory fee.

1A. **General Inorganic Chemistry.**—*Elementary Course.*

DM. First Term, Summer Quarter

Classroom, 5 hrs. a week; 10:30.

Laboratory work, 12 hrs. a week; 1:30–4:30.

DR. JONES

Prerequisite: *Preparatory Physics*.

2A. **General Inorganic Chemistry.**—Continuation of Course 1A. Hours as in 1A.

DM. Second Term, Summer Quarter

DR. JONES

The lectures and classroom work of 1A and 2A may be taken by Graduate students without the laboratory work or laboratory fee.

1B. **General Inorganic Chemistry.**—*Special Course.*

DM. First Term, Summer Quarter

Lectures, 5 hrs. a week; 10:30.

Laboratory work, 12 hrs. a week; 1:30–4:30.

DR. JONES

Prerequisite: *Admission Chemistry* and *Physics*, 1 unit each.

* Medical students who enter without receiving credit for High School Chemistry are required to take General Chemistry, Courses 1, 2, and 3, or 1A, 2A (2Mj, Summer Quarter) and 3 (Winter or Spring), or 6 (Autumn Quarter), and Organic Chemistry, 4. Students entering without Organic Chemistry will take Course 4, Autumn Quarter, 1905.

Students attend the same lectures as in Course 1A, but the laboratory work and recitations in Course 1B are independent and advanced.

2B. General Inorganic Chemistry.—*Special Course.*
Continuation of Course 1B. Hours as in 1B.

DM. Second Term, Summer Quarter

DR. JONES

For description see under 3.

4. Elementary Organic Chemistry.

Classroom, 3 hrs. a week; 8:30.

Laboratory work, 6 hrs. a week.

Mj. Autumn Quarter

DR. JONES

Prerequisite: *Course 3, or 2A, or 2B, General Chemistry.*

PRIMARILY FOR THE SENIOR COLLEGES

NOTE.—Courses 6, 7, 8, 9, 10, 11, and 13 are given in the analytical laboratories. The laboratories are open from 8:00 A. M. to 6:00 P. M. (Saturdays only to 1:00 P. M.). The hours of instruction provide for morning and afternoon sections and will be posted in the laboratory.

Courses 8 and 9 will count toward a Master's or the Doctor's degree when Chemistry is the *secondary* subject.

6. Qualitative Analysis.—*Introductory Course.*

Mj or DM. 8 or 16 hrs. a week, laboratory.

2 hrs. a week classroom. Lectures, 2:00.

First Term, Summer Quarter; Autumn Quarter

PROFESSOR STIEGLITZ AND DR. HOLMES

Winter and Spring Quarters

DR. JONES

Second Term, Summer Quarter

DR. HOLMES

Prerequisite: *Course 3, or 2A, or 2B.*

The lectures deal with the chemistry of the analytical reactions, and special attention is given to the development and application of the laws of equilibrium and solutions. This course, is, in an important sense, one in advanced general chemistry.

7. Qualitative Analysis.—Continuation of Course 6.
Hours as in 6.

Mj or DM. Summer and Autumn Quarters

DR. HOLMES

Winter and Spring Quarters

DR. JONES

Courses 6, 7, 10 form a continuous course, which may be begun in any Quarter.

The aim of Courses 6, 7, 10 will be to train the student to do intelligent analytical work based on a knowledge of the scientific principles of the subject and to apply and amplify his knowledge of general and physical chemistry.

8. Quantitative Analysis.—*Introductory Course.*
Chiefly laboratory work in gravimetric and volumetric analysis.

Mj or DM. 8 or 16 hrs. a week, laboratory
Lecture, 1 hour.

First Term, Summer Quarter, Autumn and Winter Quarters.

PROFESSOR STIEGLITZ AND MISS BARNARD

Second Term, Summer Quarter, Spring Quarter

MISS BARNARD

Prerequisite: *Qualitative Analysis* (Courses 6 and 7).

9. Quantitative Analysis.—Continuation of Course 8,
Mj or DM. 10 or 20 hrs. a week, laboratory.

First Term, Summer Quarter; Autumn and Winter Quarters.

PROFESSOR STIEGLITZ AND MISS BARNARD

Second Term, Summer Quarter; Spring Quarter

MISS BARNARD

Courses 8, 9, 11, form a continuous course, which may be begun in any Quarter.

PRIMARILY FOR THE GRADUATE SCHOOL

10. Advanced Qualitative Analysis.—Mj or DM. 10
or 20 hrs. a week, laboratory.

Summer and Autumn Quarters

DR. HOLMES

Winter and Spring Quarters

DR. JONES

Open to College Students. Continuation of Courses 6 and 7.

11. Advanced Quantitative Analysis.—Mj or DM. 10
or 20 hrs. a week.

Autumn and Winter Quarters

PROFESSOR STIEGLITZ AND MISS BARNARD

Continuation of Courses 8 and 9. Open to students in the Senior Colleges.

12. Elementary Spectrum Analysis (Qualitative).—
Emission (flame and electric spark) and absorption spectra of inorganic substances. Chiefly laboratory work.

$\frac{1}{2}$ Mj. Winter Quarter

DR. JONES

13. Special Methods in Quantitative Analysis.—
Chiefly laboratory work.

13A. Electrolytic Methods. $\frac{1}{2}$ Mj or Mj

13B. Special Mineral Analysis. Mj

13C. Water Analysis. $\frac{1}{2}$ Mj

13D. Gas Analysis. $\frac{1}{2}$ Mj

- 13E. Organic Elementary Analysis. $\frac{1}{2}$ Mj
 13G. Iron and Steel Analysis. $\frac{1}{2}$ Mj or Mj
 13H. Proximate Food Analysis. $\frac{1}{2}$ Mj or Mj
 First Term, Summer Quarter; Autumn Winter,
 and Spring Quarters.

PROFESSOR STIEGLITZ AND MISS BARNARD
 Second Term, Summer Quarter
 MISS BARNARD

14. Organic Chemistry.—Lectures, 3 hrs. a week.
 Mj. Autumn Quarter; 12:00
 PROFESSOR NEF

Prerequisite: *General Chemistry and Qualitative Analysis*.

15. Organic Chemistry.—Continuation of Course 14.
 Mj. Winter Quarter; 12:00
 PROFESSOR NEF

16. Organic Chemistry.—Continuation of Course 15.
 M. First Term, Spring Quarter; 12:00
 PROFESSOR NEF

Courses 14, 15, 16 form a continuous course, covering the compounds of carbon, including the fatty and the aromatic series. The aim of the course will be to take up very thoroughly the simpler compounds, going with great detail into the chemical behavior, the characteristic reactions and relationships of the different classes of organic compounds, and considering with great care the synthetic methods by which they can be obtained. Richter's or Bernthsen's *Organic Chemistry* is used as a reference book, but recent literature will, in special cases, be considered in detail.

17. General Organic Chemistry.—Fatty and aromatic series.

Lectures, 5 hrs. a week.
 Mj (or M. First Term). Summer Quarter; 8:30
 DR. HESSLER

Prerequisite; *General Chemistry and Qualitative Analysis*.

18. Elementary Organic Preparations.—Laboratory work, 10 hrs. a week. This course is arranged to accompany the lectures of Course 17. It may be taken without the lectures by students who have had organic chemistry.

$\frac{1}{2}$ Mj or Mj. Summer Quarter
 DR. HESSLER

Prerequisite: *As in Course 17*.

19. The Chemistry and Preparation of Medicinal Drugs.—Dealing with the origin and the physical

and chemical properties of the most important drugs, and their chief medicinal preparations.

Lectures and Conferences: Tues., Thurs., Fri., 4:00. $\frac{1}{2}$ Mj. Spring Quarter
 PROFESSOR HAINES

20. Organic Preparations.—Laboratory work; 10 or 20 hrs. a week.

Mj or DM. Autumn, Winter, and Spring Quarters.

PROFESSOR NEF
 Summer Quarter
 DR. HESSLER

Prerequisite: *Qualitative and Quantitative Analysis* and *Organic Chemistry* (it may be taken simultaneously in connection with lectures on Organic Chemistry). A reading knowledge of German is essential.

21. Organic Preparations.—Continuation of Course 20.
 Mj or DM. Autumn, Winter, and Spring Quarters.

PROFESSOR NEF
 Summer Quarter
 DR. HESSLER

22. Organic Preparations.—Continuation of Course 21.
 Mj or DM. Autumn, Winter, and Spring Quarters.

PROFESSOR NEF
 Summer Quarter
 DR. HESSLER

23. Physical Chemistry Applied to Problems in General Chemistry.—2 hrs. a week. $\frac{1}{2}$ Mj

PROFESSOR SMITH

Prerequisite: *College Physics, General Chemistry and Qualitative Analysis*.

[Not to be given in 1905-6]

24. Advanced Inorganic Chemistry.—Two lectures a week on selected topics. $\frac{1}{2}$ Mj. Winter Quarter

DR. JONES

Prerequisite: *General Chemistry and Qualitative Analysis*.

25. Inorganic Preparations.—Laboratory work, 10 or 20 hrs. a week. Mj or DM. Summer Quarter

DR. HESSLER

Autumn, Winter and Spring Quarters
 DR. JONES

Prerequisite: *Qualitative and Quantitative Analysis, and a reading knowledge of German*.

26. Inorganic Preparations.—Continuation of Course 25.

Mj or DM. Autumn, Winter and Spring Quarters.
 DR. JONES

27. **Inorganic Preparations.**—Continuation of Course
26. Mj or DM. Autumn and Winter Quarters
DR. JONES

- 28A. **Elementary Physical Chemistry.**—With special reference to Physico-Chemical measurements.

$\frac{1}{2}$ Mj. First Term, Summer Quarter

PROFESSOR STIEGLITZ

$\frac{1}{2}$ Mj. 2 hrs. a week. Second Term, Summer Quarter; Spring Quarter

ASSISTANT PROFESSOR MCCOY

Prerequisite: *College Physics* (Course 1) and *Qualitative Analysis* (Course 6).

- 28B. **Practical Physical Chemistry.**

M or $\frac{1}{2}$ Mj. Summer Quarter

PROFESSOR STIEGLITZ

M or $\frac{1}{2}$ Mj. 5 hrs. a week. Second Term, Summer Quarter; Spring Quarter

ASSISTANT PROFESSOR MCCOY

Prerequisite: *College Physics* (Course 1), *Quantitative Analysis* (Course 8); Course 28A should accompany or precede this course.

29. **Chemical Dynamics.** $\frac{1}{2}$ Mj. 2 hrs. a week.

M, Second Term, Summer Quarter; Autumn Quarter; 12:00

ASSISTANT PROFESSOR MCCOY

Prerequisite: *Elementary Physical and Organic Chemistry, including laboratory work; the elements of calculus.*

30. **Electro-Chemistry.**

$\frac{1}{2}$ Mj. 2 hrs. a week. Winter Quarter

ASSISTANT PROFESSOR MCCOY

Prerequisite: *Elementary Physical Chemistry, including laboratory work; the elements of calculus.*

31. **Advanced Physical Chemistry.**—Laboratory course. Mj or DM. Second Term, Summer Quarter; Autumn and Spring Quarters.

ASSISTANT PROFESSOR MCCOY

Prerequisite: *College Physics, 1 year.* Course 29 should accompany or precede this course.

32. **Advanced Physical Chemistry.**—Laboratory course. Continuation of Course 31.

Mj or DM. Second Term, Summer Quarter; Autumn and Spring Quarters.

ASSISTANT PROFESSOR MCCOY

33. **Research Work.**—This course will include from 30 to 40 hrs. a week of laboratory, under the special

direction of some one of the instructors in the department. It is expected that research work for a Ph.D. thesis will require 4-6 Quarters, 4-6 DMj.

- 33a. **RESEARCH IN ORGANIC CHEMISTRY.**

Autumn, Winter, and Spring Quarters

PROFESSOR NEF

- 33b. **RESEARCH IN GENERAL CHEMISTRY.**

Autumn, Winter, and Spring Quarters

PROFESSOR SMITH

- 33c. **RESEARCH IN ORGANIC AND PHYSICO-ORGANIC CHEMISTRY.**—Summer, Autumn, Winter and Spring Quarters. PROFESSOR STIEGLITZ

- 33d. **RESEARCH IN PHYSICAL CHEMISTRY.**

Summer, Autumn and Spring Quarters

ASSISTANT PROFESSOR MCCOY

Before being admitted to Research, a candidate must satisfy the instructors of the department, by an oral test, or otherwise, that his previous training has been sufficient.

34. **Physical Chemistry Applied to Organic Problems.**

Lectures, 2 hrs. a week. $\frac{1}{2}$ Mj. Winter Quarter

PROFESSOR STIEGLITZ

Prerequisite: *Organic Chemistry and Elementary Physical Chemistry.*

35. **The Carbohydrates and the Terpenes (and their derivatives).**—Lectures, 2 hrs. a week.

$\frac{1}{2}$ Mj. Autumn Quarter; 8:30

PROFESSOR STIEGLITZ

Prerequisite: *Organic Chemistry.*

[Not to be given in 1905-6]

36. **Organic Nitrogen Derivatives.**—Uric acid series; pyridine, quinone-imides, and phenazine compounds; a discussion of the alkaloids, ptomaines, and organic dye-stuffs. Lectures, 2 hrs. a week.

$\frac{1}{2}$ Mj. Winter Quarter; 8:30

PROFESSOR STIEGLITZ

Prerequisite: *Organic Chemistry.*

[Not to be given in 1905-6]

37. **Special Chapters of Organic Chemistry.**—Lectures, 4 hrs. a week.

M. Second Term, Spring Quarter; 12:00

PROFESSOR NEF

Prerequisite: *Organic Chemistry.*

38. **The Aromatic Series.**—Lectures, 2 hrs. a week.

$\frac{1}{2}$ Mj. Spring Quarter

DR. HESSLER

Prerequisite: *Organic Chemistry.*

40. **Training Course in the Teaching of Chemistry**—
1 $\frac{1}{2}$ Mj. Continued through Autumn, Winter
and Spring Quarters. PROFESSOR SMITH

42. **History of Chemistry**.—2 hrs. a week.
2 $\frac{1}{2}$ Mj. Winter and Spring Quarters
[Not to be given in 1905-6]

43. **Club Meetings.**

Summer, Autumn, Winter, and Spring Quarters
VARIOUS MEMBERS OF THE STAFF

Meetings will be held twice a month. They may be
attended by anyone interested, whether connected
with the University or not; the subjects for the meet-
ings will be announced at least one week beforehand.

INSTRUCTION AT RUSH MEDICAL COLLEGE

51. **Toxicology**.—A conference and laboratory course,
dealing with the physical and chemical properties
of the more important poisons, their effects and
treatment, and their detection. Conferences and
Laboratory: Tues., 11:00; Thurs., Fri., 10:00-12:00.
Spring Quarter, 1906. .8 Mj
PROFESSOR HAINES, ASSISTANT PROFESSOR
SALISBURY, AND DR. VAUGHAN

52. **Clinical Chemistry**.—A lecture, conference, and
laboratory course, dealing with the urine, gastric
contents, and other animal fluids, in their relation
to disease, and embracing the composition of these
fluids, the chemical and microscopical detection of
abnormal constituents, and the interpretation of
their clinical significance.

Lectures, Conferences, and Laboratory: Mon.,
10:00; Wed., Thurs., 10:00-12:00. .8 Mj

PROFESSOR HAINES, ASSISTANT PROFESSOR
SALISBURY, AND DR. VAUGHAN

[Not to be given in 1905-6]

Course 52 may be counted as a part of the four
required Majors in medicine.

53. **Materia Medica and Medical Pharmacy**.—A lec-
ture and conference course, dealing with the
physical, chemical, and pharmaceutical properties
of medicinal agents.

Lectures and Conferences: Mon., 11:00; Tues.,
Fri., Sat., 10:00. .8 Mj

Autumn Quarter, 1905.
PROFESSOR HAINES AND
DRS. MASON AND VAUGHAN

53A. **Materia Medica and Medical Pharmacy**.—A
laboratory course supplementary to Course 53.

Tues., Fri., Sat., 11:00. .3 Mj

Autumn Quarter, 1905
PROFESSOR HAINES AND DR. VAUGHAN

54. **Principles of Prescribing**.—A lecture and confer-
ence course, occupying two hours weekly for one
term, on the principles of prescription writing.
Classes limited to twenty-four.

The first term in each Quarter throughout the
year. Wed., Sat., 10:00. .4 M

ASSISTANT PROFESSOR PATTON
AND DR. MASON

V. DEPARTMENT OF THERAPEUTICS AND PREVENTIVE MEDICINE

OFFICERS OF INSTRUCTION

INGALS PROFESSOR AND HEAD OF THE DEPARTMENT OF THERAPEUTICS HENRY BAIRD FAVILL.
ASSISTANT PROFESSOR JAMES C. GILL.
INSTRUCTOR EDWARD B. HUTCHINSON.
ASSOCIATE CHARLES E. BLOMGREN.
ASSISTANTS HUGO AD OLDENBORG, ROBERT J. GAY.

INTRODUCTORY

The course in Preventive Medicine will be given to the senior class and will consist of lectures by the head
of the department and conference with the instructors.

The department will give to the junior class a course in the principles of Therapeutics by means of lectures
twice a week by the head of the department. One hour in the week will be devoted to recitations in sections
conducted by other members of the department upon the application of various therapeutic agents to specific
disease problems.

It is intended that this department shall supplement the work of the department of medicine by dealing considerably more in detail with the technique of treatment.

A course in Practical Therapeutics is also offered in which it is intended to demonstrate manipulative methods, including Massage, Electricity, Hydrotherapy, etc.

COURSES OF INSTRUCTION

JUNIOR YEAR

1. **Therapeutics.**—A lecture and conference course.

Lectures: Tues., Thurs.

Conferences: Sat., 8:00.

Winter Quarter. .6Mj

PROFESSOR FAVILL, ASSISTANT PROFESSOR GILL,
DRS. HUTCHINSON AND BLOMGREN

2. **Therapeutics.**—A lecture and conference course in continuation of Course 1.

Lectures: Tues., Thurs.

Conference: Sat., 8:00.

Spring Quarter. .6Mj

PROFESSOR FAVILL, ASSISTANT PROFESSOR GILL,
DRS. HUTCHINSON AND BLOMGREN

3. **Practical Therapeutics.**—A laboratory and practical course in Massage, Hydrotherapy, Aerotherapy, and Kinesitherapy, with clinical application, given to the class in section.

Tues., Wed., Thurs., 4:00 to 6:00.

Autumn and Winter Quarters. .3Mj

ASSISTANT PROFESSOR GILL, DR. GRAY,
AND MR. OLDENBORG

4. **Prescription Writing.**—A didactic and conference course in the art of prescription writing. Given to the class in small sections.

Throughout the year

Tues., 9:00.

.2Mj

SENIOR YEAR

5. **Preventive Medicine.**—A lecture and conference course.

Tues., Thurs., and Sat., 8:00.

Autumn Quarter. .6Mj

PROFESSOR FAVILL

7. **Kinesitherapy.** A practical course in Kinesitherapy, with demonstration of all forms of massage and muscular training upon selected patients.

Three days each week, 8:00 to 10:00.

Autumn, Winter, and Spring Quarters. .6Mj.

HUGO AD OLDENBORG

VI. THE DEPARTMENT OF PATHOLOGY AND BACTERIOLOGY

AT THE UNIVERSITY (DEPARTMENT XXVIII)

OFFICERS OF INSTRUCTION

LUDVIG HEKTOEN, M.D., *Professor of Pathology, and Head of the Department of Pathology and Bacteriology.*

EDWIN OAKES JORDAN, Ph.D., *Associate Professor of Bacteriology.*

H. GIDEON WELLS, Ph.D., M.D., *Assistant Professor of Pathology.*

HOWARD TAYLOR RICKETTS, M.D., *Instructor in Pathology.*

BROWN PUSEY, M.D., *Instructor in the Pathology of the Eye.*

NORMAN MacLEOD HARRIS, M.B., *Instructor in Bacteriology.*

RAGNHILD GULBRANSEN, *Technical Assistant in Pathology.*

THOR ROTHSTEIN, M.D., *Research Assistant in Neuropathology.*

MARY HEFFERAN, Ph.D., *Curator of the Bacteriological Museum.*

WILFRED HAMILTON MANWARING, M.D., *Assistant in Pathology (Summer Quarter, 1905).*

AT RUSH MEDICAL COLLEGE

EDWIN RAYMOND LE COUNT, M.D., *Associate Professor of Pathology.*

GEORGE H. WEAVER, M.D., *Assistant Professor of Pathology.*

PETER BASSOE, M.D., *Instructor in Pathology.*

G. MILTON HALL, M.D., *Assistant in Pathology.*

HERMAN EMIL WOLF, M.D., *Rush Alumni Fellow in Pathology.*

OSCAR P. JOHNSTONE, *Fellow in Pathology.*

FELLOWS AT THE UNIVERSITY OF CHICAGO

1905-1906

DUDLEY WATSON DAY (Bacteriology).

PAUL GUSTAV HEINEMANN, S.B. (Bacteriology).

EDWIN GARVEY KIRK, S.B. (Pathology).

WILFRED HAMILTON MANWARING, M.D. (Pathology).

BENJAMIN TAYLOR TERRY, M.D. (Traveling Fellow in Pathology).

INTRODUCTORY

The courses offered by the Department include such as cover the required work in Pathology and Bacteriology in the curriculum of medicine, as well as advanced courses arranged for those desiring a more extended knowledge of the subjects, and for those wishing to qualify themselves for research.

At the University of Chicago the Department possesses all necessary equipment for pathologic and bacteriologic work. There is access to a good museum for teaching purposes, and to complete files of the important serial publications. Any recent standard textbook may be used for the courses in this department.

For each Major or Double Minor Course requiring laboratory work the laboratory fee is \$2.50.

The Pathological Laboratory of Rush Medical College possesses about one hundred microscopes, some fourteen microtomes, and all necessary equipment for pathologic and bacteriologic work. The laboratory has a good museum for teaching purposes and a special departmental library containing complete files of the important pathological and bacteriological journals in the English, French, and German languages. Adjacent hospitals furnish abundant material for demonstration, advanced work, and research.

COURSES OF INSTRUCTION

SENIOR COLLEGE COURSES

1. **Pathogenic Bacteria.**—General aspects of Bacteriology, designed primarily for medical students.

1½Mj. Summer Quarter; 1:30-4:30

DR. HARRIS

Repeated in Autumn Quarter.

Sec. a, daily 2:00-4:00

Sec. b, daily 11:00-1:00

ASSOCIATE PROFESSOR JORDAN,

DR. HARRIS, AND ASSISTANTS

- 1B. **General Bacteriology.**—For non-medical students.

1Mj. Spring Quarter

DR. HARRIS

- 2A. **General Pathology and Pathological Histology.**

A practical laboratory course in general pathologic histology, supplemented by experiment, by lantern demonstrations, and by the study of fresh and museum specimens, by recitations in general pathology.

1Mj. Winter Quarter

PROFESSOR HEKTOEN,

ASSISTANT PROFESSOR WELLS, DR. RICKETTS, AND ASSISTANTS

Recitations: Two hours a week.

Laboratory: Eight hours a week.

Prerequisite: *Histology, Bacteriology, and Physiological Chemistry.*

- 2B. **General Pathology and Pathological Histology.** Continuation of 2A in Spring Quarter. Mj

(2A and 2B will be given in the Summer Quarter 1905, as 2DM.)

DR. RICKETTS

3. **Lectures in General Pathology.**—Supplementary to Course 2B. ½Mj. Spring Quarter

THE INSTRUCTORS OF THE DEPARTMENT

4. **Advanced Bacteriology.**—Open to a limited number of specially prepared students and graduates in medicine. Lectures on specially selected topics.

Repeated each quarter.

Hours to be arranged. Mj

ASSOCIATE PROFESSOR JORDAN

AND DR. HARRIS

5. **Public Hygiene.**—The application of Bacteriology to municipal hygiene. Water supply, food supply, sewage disposal, etc. Mj. Spring Quarter

ASSOCIATE PROFESSOR JORDAN

- 7A. **Principles of Hygiene.**—An elementary laboratory course for high-school teachers. Laboratory work ten hours a week.

M. First Term, Summer Quarter

DR. MANWARING

- 7B. **The Nature of Disease.**—A non-technical course covering important facts about disease. Designed especially for non-medical students. Lectures and laboratory work.

M. Second Term, Summer Quarter

DR. MANWARING

GRADUATE COURSES

8. **Pathology of the Eye.**—Special advanced pathology for practicing physicians and advanced students. DM. First Term, Summer Quarter

Hours arranged for each student. DR. PUSEY

9. **Advanced Pathology.**—Open to a limited number of students who have credit in general pathology. Laboratory work will be given in pathological technique, the study and recording of autopsies, and special pathological material.

Weekly conferences. Mj or DMj. Each Quarter
Hours arranged for each student.

Summer Quarter
DR. RICKETTS

Autumn, Winter, and Spring Quarters
ASSISTANT PROFESSOR WELLS

10. **Research in Pathology.**—Open to a limited number of specially qualified students and graduates in medicine.

Mj or DMj. Each Quarter
Hours to be arranged for each student.

PROFESSOR HEKTOEN,
ASSISTANT PROFESSOR WELLS,
DRS. RICKETTS AND MANWARING

11. **Research in Bacteriology.**

Mj or DMj. Each Quarter
ASSOCIATE PROFESSOR JORDAN
AND DR. HARRIS

- 12A. **Special Pathology.**—A course of recitations, with demonstrations of anatomical specimens, on the pathological processes of the different viscera.

$\frac{1}{2}$ Mj. Summer Quarter
Hours to be arranged.

ASSISTANT PROFESSOR WELLS
Prerequisite: *General Pathology*.

(Not to be given in 1905.)

- 12B. **Laboratory Course.**—Supplement to 12A.

$\frac{1}{2}$ Mj. Summer Quarter
Hours arranged for each student.

ASSISTANT PROFESSOR WELLS

(Not to be given in 1905.)

- Laboratory Course in Immunity.**—Immunization of animals. Cytolysis (including hemolysis and bacteriolysis), agglutination, toxins and antitoxins, etc. An experimental course.

$\frac{1}{2}$ Mj or M. Summer Quarter
Hours to be arranged. DR. RICKETTS
OR DR. MANWARING

Prerequisite: *Bacteriology and General Pathology*.

- 13B. **Lecture Course in Immunity.**—This will include a consideration of the theories of immunity, the reactions and substances concerned, and the present status of immunity in various infectious diseases; also compensation and adaptation in disease processes.

Supplementary to 13A, but may be taken independently. $\frac{1}{2}$ M or M. Summer Quarter

Hours to be arranged. DR. RICKETTS
OR DR. MANWARING

Prerequisite: *Bacteriology and General Pathology*.

14. **Bacteriology of Autopsies.**—Open to a limited number of students. Study will be made of bacteriological material obtained at autopsies. Conferences weekly. This course is associated with Course 9.

Mj. Each Quarter
ASSISTANT PROFESSOR WELLS
AND DR. RICKETTS

16. **Sanitary Aspect of Milk Supply.**—Practice in laboratory methods of the examination of milk. Limited to six students. Mj. Winter Quarter

Hours to be arranged. DR. HARRIS

Prerequisites: *Chemistry and Bacteriology*.

18. **Introduction to Pathological Physiology.**—Lectures and laboratory work.

$\frac{1}{2}$ Mj. Autumn and Spring Quarters
DR. MANWARING

JUNIOR AND SENIOR COURSES (WEST SIDE)

12. **Special Pathologic Anatomy and Histology.**—Limited to forty students. Practical instruction is given in the methods of making post-mortem examinations and of recording the results. The student studies and describes the gross and microscopic appearance of diseased organs and tissue. Bacteriologic and chemic methods and experiments are employed whenever indicated, and the clinical relations (pathologic physiology) of the morbid conditions are emphasized.

Daily, 1:09–3:00, except Saturday. Mj
Summer Quarter
DRS. HALL AND JOHNSTONE

Autumn Quarter
ASSOCIATE PROFESSOR LECOUNT
AND DR. JOHNSTONE

Winter Quarter
DRS. BASSOE AND HALL

Spring Quarter
DRS. BASSOE AND HALL

Prerequisites: *Courses Pathology 2A and 2B*.

13. The Histology and Diagnosis of Tumors.

Daily, 3:00 to 5:00.

M

Second Term, Autumn Quarter

ASSOCIATE PROFESSOR LeCOUNT

Second Term, Winter Quarter

DR. BASSOE

Prerequisites: *Courses Pathol. 2A and 2B.***15. Chemical Pathology.**—The Physics and Chemistry of Pathologic Processes. A lecture course covering the subject of general pathology from the chemical standpoint, and also certain of the diseases of intoxication.

M

Winter Quarter

ASSISTANT PROFESSOR WELLS

17. Advanced Laboratory Work and Research in Pathology.—Open to a limited number of specially qualified students and graduates in medicine.

Hours arranged for each student. Credit given based on time and quality of work.

Throughout the year

PROFESSOR HEKTOEN,

ASSOCIATE PROFESSOR LeCOUNT,

AND DR. BASSOE

Prerequisites: *Courses Pathol. 2A, 2B and 12.***18. General Pathology.**—A lecture course with demonstrations. $\frac{1}{2}$ M. Winter Quarter

ASSOCIATE PROFESSOR LeCOUNT

AND DR. BASSOE

Hours to be announced.

19. A Course in Practical Work in Pathology and Bacteriology.—With special reference to general practice.

Daily, 10:00 to 1 00.

M. Second Term, Winter Quarter

DRS. RICKETTS AND DAVIS

Limited to 24 students.

20. Pathology of the Nervous System.—A laboratory course in the Pathology of the nervous system.

Mon., Wed., Fri., 3:00-5:00.

M

Limited to ten students.

First term, winter quarter

DR. BASSOE

Perquisites: *Courses Pathol. 2A, 2B and 12.***21. Introduction to Pathological Physiology.**—Lectures and laboratory work. $\frac{1}{2}$ Mj. Autumn Quarter

DR. MANWARING

VII. DEPARTMENT OF MEDICINE

OFFICERS OF INSTRUCTION

PROFESSOR AND HEAD OF THE DEPARTMENT OF MEDICINE FRANK BILLINGS.

EMERITUS PROFESSOR NORMAN BRIDGE.

PROFESSORS DANIEL R. BROWER, JOHN M. DODSON, JAMES B. HERRICK, ALFRED C. COTTON.

ASSISTANT PROFESSORS JEROME H. SALISBURY, BERTRAM W. SIPPY, B. M. LINNELL, ISAAC A.

ABT, S. R. SLAYMAKER, JOSEPH A. CAPPS, WILLIAM J. BUTLER, FRANK S. CHURCHILL,
JOSEPH L. MILLER.INSTRUCTORS JAMES A. HARVEY, JAMES C. GILL, GEORGE W. HALL, J. W. VANDERSLICE,
WILLIAM L. WILSON, JOSEPHINE YOUNG, THEODORE TIEKEN.ASSOCIATES ALEXANDER F. STEVENSON, JULIA D. MERRILL, ALEXANDER C. SOPER, JR.,
MOSES M. PORTIS, J. M. WASHBURN, A. A. SMALL, ROLLIN T. WOODYATT, JOSEPH C.
FRIEDMAN, EDWARD C. ROSENOW, ISIDORE B. DIAMOND.ASSISTANTS A. D. KOHN, MICHAEL L. GALLAGHER, W. H. WALKER, BATHENA COONE, R. E.
GREEN, A. C. McCLANAHAN, JOS. H. OTRADOVEC, WILLIAM R. STEPHENS, ISAAC J. FRANK-
LIN, CHARLES O. HOIBY, S. KRUMHOLZ, THOR ROTHSTEIN, DANIEL R. BROWER, JR.CLINICAL ASSISTANTS ELIZABETH H. DUNN, JOHN C. WEST, GRACE H. CAMPBELL, S. J. McNEILL.
FELLOW, LUDWIG M. LOEB.

EXTRA-MURAL TEACHERS

AT THE WEST SIDE HEBREW DISPENSARY

ASSISTANT CLINICAL PROFESSOR (*extra-mural*) ROSA ENGELMAN.ASSISTANT CLINICAL PROFESSOR (*extra-mural*) SIDNEY KUH.CLINICAL INSTRUCTOR (*extra-mural*) A. W. SCHRAM.CLINICAL ASSISTANTS (*extra-mural*) MAY MICHAEL, FRANK B. HARMISON.

AT THE CHICAGO ISOLATION HOSPITAL

ASSOCIATE CLINICAL PROFESSOR (*extra-mural*) HEMAN SPALDING.

AT THE ALEXIAN BROTHERS' HOSPITAL

ASSISTANT CLINICAL PROFESSOR, J. H. HOELSCHER.

AT ST. ANTHONY'S HOSPITAL

CLINICAL INSTRUCTOR (*extra-mural*) FRED J. E. EHLMANN.

COURSES OF INSTRUCTION

JUNIOR YEAR

1. **The Anatomy, Physiology, and Hygiene of Infancy.**—A recitation and conference course.

Mon., Wed., Fri., 9:00.

First Term, Summer Quarter. .6M

First Term, Spring Quarter.

ASSISTANT PROFESSOR BUTLER

2. **General Symptomatology.**—A recitation and conference course.

Mon., Wed., Fri., 9:00.

.6M

Second Term, Summer Quarter

DR. PORTIS

3. **Diseases of the Blood, and Infectious Diseases.**
A recitation and conference course.

Mon., Wed., Fri., 9:00.

Autumn Quarter. .6Mj

ASSISTANT PROFESSOR SLAYMAKER,

DRS. HARVEY, HALL, WILSON

4. **Diseases of the Alimentary Tract, of the Liver, and General Diseases.**—A recitation and conference course.

Mon., Wed., Fri., 9:00. Winter Quarter. .6Mj

ASSISTANT PROFESSOR SLAYMAKER,

DRS. HARVEY, HALL, WILSON

5. **Diseases of the Kidney and of the Nervous System and General Diseases.**—A recitation and conference course.

Mon., Wed., Fri., 9:00. Spring Quarter. .6Mj

ASSISTANT PROFESSOR SLAYMAKER,

DRS. HARVEY, HALL, WILSON

Any recent standard textbook on the Practice of Medicine may be used for Courses 2, 3, 4, and 5.

6. **A Clinical Course.**—In the Central Free Dispensary through the year.

Daily, 10:00-12:00.

.8Mj

In sections, two months for each section, one month in the department of Internal Medicine, and two weeks each in the department of Neurology and of Pediatrics.

24. **Laboratory Diagnosis.**—A laboratory course in the chemical, microscopical, and bacteriological examination of blood, urine, sputum, gastric contents, feces, secretions, exudates, etc., and their pathologic and clinical significance, especial attention being given to their bearing upon diagnosis. Each class limited to 24 men. Repeated each term throughout the year.

Daily, 10:00-12:00 or 3:00-5:00.

1.2M

DRS. STEVENSON, FRIEDMAN, SMALL, LOEB,
SOPER, GREEN, WASHBURN, ROSENOW,
DIAMOND, BLOCH

SENIOR YEAR

7. **The Disorders of Nutrition in Infancy and Childhood.**—A clinical course.

Tues., Fri., 10:00-12:00.

Summer Quarter. .6Mj

PROFESSOR COTTON

8. **Clinical Medicine.**—A clinical and conference course in general medicine with special reference to diseases of the alimentary tract.

Mon., Thurs., 10:00-12:00.

Autumn Quarter. .6Mj

PROFESSOR BILLINGS, AND
ASSISTANT PROFESSORS CAPPS AND MILLER

9. **Clinical Medicine.**—Clinical and conference course in general medicine with special reference to diseases of the spinal cord and peripheral nerves.
Mon., Thurs., 10:00–12:00.
Winter Quarter. .6Mj
PROFESSOR BILLINGS, AND
ASSISTANT PROFESSORS CAPPS AND MILLER
10. **Clinical Medicine.**—A clinical and conference course in general medicine with special reference to diseases of the blood and ductless glands.
Mon., Thurs., 10:00–12:00.
Spring Quarter. .6Mj
PROFESSOR BILLINGS, AND
ASSISTANT PROFESSORS CAPPS AND MILLER
Summer Quarter, diseases of the nervous system.
PROFESSOR BILLINGS AND
ASSISTANT PROFESSORS MILLER AND CAPPS
11. **Clinical Medicine.**—A clinical and conference course in general medicine.
Summer Quarter, general symptomatology and the infectious diseases.
ASSISTANT PROFESSORS SLAYMAKER
AND DR. TIEKEN
11, F. Autumn Quarter, diseases of the kidney and the vascular system.
PROFESSOR HERRICK
11, W. Winter Quarter, diseases of the blood and of the ductless glands.
PROFESSOR HERRICK
11, S. Spring Quarter, diseases of the brain and spinal cord.
Tues., Fri., 10:00–12:00. Tues. at the Cook County Hospital; Fri. in the College Amphitheater. .6Mj
PROFESSOR HERRICK
12. **The Eruptive Diseases of Infancy and Childhood.**
A clinical and conference course.
Tues., Fri., 10:00–12:00.
Autumn Quarter. .6Mj
PROFESSOR DODSON
13. **Clinical Medicine.**—A clinical and conference course in general medicine.
Summer Quarter. Diseases of the alimentary tract.
13, F. Autumn Quarter. Infectious diseases.
13, W. Winter Quarter. Diseases of the alimentary tract.
13, S. Spring Quarter. Diseases of the kidney and vascular system.
Wed., Sat., 10:00–12:00. .6Mj
ASSISTANT PROFESSOR SIPPY AND ASSISTANTS
14. **Clinic on Nervous Diseases.**—Students may register for any one, two or all three days and receive respectively, .2, .4, or .6Mj
Mon., Wed., Fri., 10:00–12:00. Each Quarter
PROFESSOR BROWER AND ASSISTANTS
15. **Diseases of the Respiratory Tract of Infancy and Childhood.**—A lecture and clinical course.
Tues., Fri., 10:00–12:00. Winter Quarter. .6Mj
PROFESSOR COTTON
16. **Physical Diagnosis of Infancy and Childhood.**
A recitation and conference course, limited to twenty-four students.
Mon., Wed., 9:00.
First Term, Winter Quarter. .4M
DR. J. W. VANDERSLICE
17. **Pediatrics.**—A clinical course at the Cook County Hospital, limited to twelve students.
Mon., Wed., 9:00.
Autumn, Winter, and Spring Quarters. .2Mj
ASSISTANT PROFESSOR CHURCHILL
19. **The Nervous Diseases of Infancy and Childhood.**
A clinical and lecture course.
Tues., Fri., 10:00–12:00. Spring Quarter. .6Mj
PROFESSOR DODSON
21. **Clinical Course at Cook County Hospital.**—In Autumn, Winter, and Spring Quarters, to follow the quiz in general medicine; Summer Quarter, acute infectious diseases. Limited to eighteen students each quarter.
Thurs., 10:00–12:00. .3Mj
ASSISTANT PROFESSOR SLAYMAKER
- 21A. A course similar to the above given Sat., from 10:00–12:00. During the Summer Quarter the special topic will be diseases of the kidney and of the vascular system. .3Mj
ASSISTANT PROFESSOR MILLER
22. **Mental and Nervous Diseases.**—A didactic and clinical course at the Cook County Hospital on insanity and diseases of the nervous system, including conferences and clinical lectures at the Hospital for Insane at Elgin, Kankakee or Dunning. .3Mj
Fri., 4:00–6:00. Autumn and Spring Quarters
PROFESSOR BROWER
Winter and Summer Quarters
ASSISTANT CLINICAL PROFESSOR KUH
25. **Diseases of the Stomach.**—A clinical and laboratory course, limited to 12 students. About three-fourths of the course will be devoted to the practical examination of patients in the Central Free

Dispensary, and the remainder to Laboratory investigation.

Tues., Thurs., 8:00-10:00.

Summer Quarter. .4Mj

ASSISTANT PROFESSOR SALISBURY

26. **Seminar in Classics of Medical Literature.**—In this course classic contributions to medical literature will be studied by means of reading, essay-writing, conference, and discussion. The number of students taking this course will be limited to twelve.

For 1906 the subjects taken up will be:

1. Laennec on Diseases of the Chest, selected chapters.
2. Addison on Diseases of the Suprarenal Capsule.
3. Report of the London Clinical Society on Myxoedema.
4. Koch on the Bacillus of Tuberculosis.
5. Selections from Trousseau's Clinical Medicine.
6. Gerhard on Typhoid Fever.

Copies of these works in English will be found in the Rush Medical College Library.

Winter Quarter

Hours to be announced. .2 to 1 Mj

PROFESSOR HERRICK

27. **A Clinical Course at Cook County Hospital.**—In Autumn, Winter, and Spring Quarters, to follow the quiz in General Medicine.

Thurs., 7:00-8:00. .2 Mj

ASSISTANT PROFESSOR SIPPY AND DR. HALL

28. **Medical Tuberculosis.**—A lecture and clinical course. The class will be taken into hospital wards.

Tues., Thurs., 9:00.

First Term, Autumn Quarter. .4 M

EMERITUS PROFESSOR BRIDGE

30. (*Extra-mural.*) **Course in Clinical Pediatrics.**—At the West Side Hebrew Dispensary.

Mon., Thurs., 4:00-6:00 (throughout the year).

Each section one term. .4 M

ASSISTANT CLINICAL PROFESSOR ISAAC ABT

DR. MAY MICHAEL

Students taking this course should register also for Course X-15.

31. (*Extra-mural.*) **Course in Clinical Pediatrics.**—At the West Side Hebrew Dispensary.

Wed., Sat., 2:00-4:00 (throughout the year).

Each section one term. .4 M

ASSISTANT CLINICAL PROFESSOR ROSA ENGELMAN

Students taking this course should register also for Course VIII-18.

32. (*Extra-mural.*) **Course in Clinical Neurology.**—At the West Side Hebrew Dispensary.

Wed., Sat., 4:00-6:00.

Autumn, Winter and Spring Quarters

Each section one term. .4 M

ASSISTANT CLINICAL PROFESSOR SIDNEY KUH

33. (*Extra-mural.*) **Variola.**—A clinical course in Variola, at the Chicago Isolation Hospital, at intervals as material is afforded.

Classes limited to ten each. .2 M

ASSOCIATE CLINICAL PROFESSOR HEMAN SPALDING

34. (*Extra-mural.*) **A Course in Clinical Medicine.** At St. Luke's Hospital, limited to small groups.

Wed., 4:00-6:00. .2 Mj

Winter Quarter

PROFESSOR HENRY B. FAVILL

Students taking this course should register also for VIII-17

35. (*Extra-mural.*) **A Clinical Course in General Medicine.**—At the West Side Hebrew Dispensary. Each course extends over six weeks. Limited to eight students each term.

Wed., Sat., 4:00-6:00.

Winter and Spring Quarters. .4 M

DR. ALBERT W. SCHRAM

36. (*Extra-mural.*) **A Clinical Course.**—At St. Anthony's Hospital, corner Douglas boulevard and Nineteenth street. Limited to eight students, each term. .6 M

Mon., Wed., 1:00-4:00.

DR. FRED J. E. EHRMAN

Students taking this course should register also for Course VIII-21.

37. (*Extra-mural.*) **A Clinical Course.**—At Alexian Brothers' Hospital, Belden and Racine avenues. Limited to eight students each Quarter.

Tues., Thurs., 10:00-12:00.

.4 Mj

ASSISTANT CLINICAL PROFESSOR HOELSCHER

39. **A General Clinic in Pediatrics.**—In the children's ward at the Cook County Hospital.

Wed., 4:00-5:00.

1 Mj

ASSISTANT PROFESSOR ABT

40. **Clinical Neurology.**—At the Cook County Hospital.

Tues., 2:00-3:00.

.1Mj

DR. KUH

41. **Clinical Diagnosis Course.**—A course in bedside instruction, including all necessary chemical, microscopical and bacteriological examinations of blood, urine, sputum, gastric contents, feces, etc. Limited to six students, each quarter throughout the year.

Tues., Fri., 10:00-12:00.

.4 Mj

ASSISTANT PROFESSOR LINNELL

43. (*Extra-mural.*) **A Clinical and Conference Course.** At the West Side Hebrew Dispensary, on the diagnosis and treatment of diseases of the stomach and intestines. Each term.

Tues., Sat., 10:00-12:00.

.4 M

DR. A. D. KOHN

44. **Bedside Clinic in Pediatrics.**—At the Presbyterian Hospital. Limited to twelve students.

VIII. DEPARTMENT OF SURGERY

OFFICERS OF INSTRUCTION

PROFESSOR AND HEAD OF THE DEPARTMENT OF SURGERY NICHOLAS SENN.

PROFESSORS ARTHUR DEAN BEVAN, JOHN B. MURPHY.

CLINICAL PROFESSOR D. W. GRAHAM.

ASSOCIATE PROFESSORS WILLIAM T. BELFIELD, EMANUEL J. SENN.

ASSOCIATE PROFESSOR IN DENTAL SURGERY TRUMAN W. BROPHY.

ASSISTANT PROFESSORS ALBERT I. BOUFFLEUR, CHARLES A. PARKER.

INSTRUCTORS FRANK W. JAY, J. A. PATTON, KARL DOEPFNER, EMANUEL J. FRIEND, WILLIAM SENN, PHILIP SCHUYLER DOANE, DEAN DEWITT LEWIS.

ASSOCIATES LAWRENCE RYAN, E. W. RYERSON, STEPHEN E. DONLON, J. M. NEFF, GEORGE F. THOMPSON, CHARLES J. ROWAN.

ASSISTANTS ROBERT H. HERBST, A. C. BERTLING, D. F. GRASSE, JOSEPH F. SMITH, WILBER E. POST, VICTOR SCHRAGER.

CLINICAL ASSISTANTS WM. A. LURIE, W. H. FALKER, J. W. ELLIS, E. F. GARRAGHAN.

FELLOW, GUY C. KINNAMAN.

AT ST. LUKE'S HOSPITAL

ASSISTANT CLINICAL PROFESSOR (*extra-mural*) LEWIS L. MACARTHUR.

AT THE COOK COUNTY HOSPITAL

ASSISTANT CLINICAL PROFESSOR (*extra-mural*) A. E. HALSTED.

ASSISTANT CLINICAL PROFESSOR (*extra-mural*) MALCOLM L. HARRIS.

AT ST. ANTHONY'S HOSPITAL

ASSISTANT CLINICAL PROFESSOR (*extra-mural*) LAWRENCE RYAN.

AT THE WEST SIDE HEBREW DISPENSARY

ASSISTANT CLINICAL PROFESSORS (*extra-mural*) EMANUEL FRIEND, LOUIS A. GREENSFELDER.

CLINICAL ASSISTANTS (*extra-mural*) W. H. RUBOVITZ, G. W. WAGNER.

COURSES OF INSTRUCTION

JUNIOR YEAR

- *1. Principles.—Recitation and conference course.

Mon., Wed., Fri., 8:00.

Summer and Autumn Quarters. .6Mj

DRS. DONLON, RYERSON, RYAN,
SMITH, ROWAN, AND THOMPSON

- *2. Principles and Practice of Surgery.—A recitation and conference course.

Mon., Wed., Fri., 8:00.

Winter Quarter. .6Mj

DRS. DONLON, RYERSON, RYAN,
SMITH, ROWAN, AND THOMPSON

- *3. Practice of Surgery.—A recitation and conference course.

Mon., Wed., Fri., 8:00. Spring Quarter. .6Mj

DRS. DONLON, RYERSON, RYAN,
SMITH, ROWAN, AND THOMPSON

4. Surgical Anatomy.—A demonstration and conference course, with dissections of the abdomen and lower extremities.

Wed., Fri., 3:00. Autumn Quarter. .5Mj

ASSISTANT PROFESSOR PARKER AND DR. LEWIS

5. Surgical Anatomy.—A demonstration and conference course, with dissections of the head, neck, thorax, and upper extremities.

Wed., Fri., 3:00. Winter Quarter. .5Mj

ASSISTANT PROFESSOR PARKER AND DR. LEWIS

6. Surgical Pathology.—A six-weeks' laboratory course in sections of twelve students, in connection with the surgical clinic. Each term throughout the year.

Two days each week. .4M

DRS. WILLIAM SENN, POST, SCHRAGER

7. Demonstration Course in Bandaging, including a course on surgical appliances.

Mon., Tues., Wed., 3:00-5:00.

Six weeks for each section; each Quarter throughout the year. .6M

ASSISTANT PROFESSOR PARKER

8. Clinical Surgery. Central Free Dispensary.

Daily 1:00-3:00.

Throughout the year; one term for each section.

1.2M

DRS. DOEPFNER, JAY, FRIEND, DOANE

*The textbooks required for Courses 1, 2, and 3, are Senn's *Principles of Surgery*, Senn's *Tumors*, Senn's *Emergency and Minor Surgery*, and Von Esmarch's and Kowalzig's *Operative Surgery*, edited by Senn.

JUNIORS AND SENIORS

9. College Clinics:

Professor Senn will give two surgical clinics weekly during the Autumn Quarter, Tues. and Thurs., 2:00-4:00. .4Mj

10. Professor Bevan will give two surgical clinics weekly during the Winter, Spring, and Summer Quarters, Mon. and Thurs., 8:30-10:30. .4Mj

11. Professor Murphy will give two surgical clinics weekly during the Summer, Winter, and Spring Quarters, Tues. and Fri., 8:30-10:30 A. M. .4Mj
Autumn Quarter, Tues. or Fri. .2Mj

12. Clinical Professor Graham will give a surgical clinic throughout the year, Sat., 2:00-4:00. .2Mj

SENIORS

13. A Lecture Course, dealing with the surgery of the abdomen, Mon. and Thurs., at 8:30 A. M. Professors Bevan and Murphy and Dr. William J. Mayo (special lecturer).

Including a course in surgery of the urinary organs by Associate Professor Belfield, Thurs. at 4:00 P. M. Autumn Quarter. .6Mj

14. A Lecture Course.—Surgery of the thorax and neck. Mon. and Thurs. at 4:00 P. M. Professors Bevan, Murphy, and other members of the surgical faculty and invited lecturers.

Including a course on rectal surgery by Associate Professor E. J. Senn, Fri., 4:00 P. M. Winter Quarter. .6Mj

15. A Lecture Course.—Dealing with surgery of head. Mon. and Thurs., at 4:00 P. M. Professors Bevan and Murphy, and other members of surgical faculty and invited lecturers.

Including a course on Orthopedic Surgery. Fri., 4 P. M., by Dr. Ryerson. Spring Quarter. .6Mj

16. A Lecture Course.—Dealing with surgery of the extremities. Tues. and Thurs., at 4 P. M. Members of the surgical faculty.

Including a course on anæsthetics and surgical technique. Fri., 4:00 P. M. Summer Quarter. .6Mj

17. A Practical Course in Operative Surgery.—On the cadaver and its surgical appliances given to the class in sections.

Tues., Wed., Fri., 4:00-6:00

Repeated each term of the Autumn and Winter Quarters and the first of the Spring Quarter.

Operative surgery.

ASSISTANT PROFESSOR BOUFFLEUR

Surgical appliances,

ASSISTANT PROFESSOR PARKER

.6M

17. (*Extra-mural.*) A Course in Clinical Surgery.—At St. Luke's Hospital, classes limited to eight.

Wed., 2:00-4:00. Winter Quarter. .2Mj

ASSISTANT CLINICAL PROFESSOR MACARTHUR
Students taking this course should register also for Course VII-34.

18. (*Extra-mural.*) A Course in Clinical Surgery.—At the West Side Hebrew Dispensary, classes limited to eight students.

Wed., Sat., 4:00-6:00. .4M

Each course extends over one term.

ASSISTANT CLINICAL PROFESSOR FRIEND

Students taking this course should register also for Course VII-31.

19. (*Extra-mural.*) A Course in Clinical Surgery.—At the West Side Hebrew Dispensary, limited to eight students each Term.

Mon., Thurs., 4:00-6:00. .4M

ASSISTANT CLINICAL PROFESSOR GREENSFELDER

20. (*Extra-mural.*) A Course in Clinical Surgery.—At the Cook County Hospital, classes limited to twelve students. Throughout the year.

Thurs., 4:00-6:00. .4M

ASSISTANT CLINICAL PROFESSOR HALSTED

21. (*Extra-mural.*) A Course in Clinical Surgery.—At St. Anthony's Hospital, classes limited to eight students.

Wed., 1:00-3:00. Each Term. .2M

ASSISTANT CLINICAL PROFESSOR RYAN

Students taking this course should register also for Course VII-36.

22. (*Extra-mural.*) A Course in Clinical Surgery.—At the Cook County Hospital, limited to eight students each Quarter.

Hours to be announced. .4Mj

ASSISTANT CLINICAL PROFESSOR HARRIS

IX. DEPARTMENT OF OBSTETRICS AND GYNECOLOGY

PROFESSOR AND HEAD OF THE DEPARTMENT OF OBSTETRICS AND GYNECOLOGY, J. CLARENCE WEBSTER.

ASSISTANT PROFESSORS RUDOLPH W. HOLMES, HENRY F. LEWIS, PALMER FINDLEY.

ASSISTANT CLINICAL PROFESSOR CHARLES E. PADDOCK.

INSTRUCTORS A. BELCHAM KEYES, FRANK W. LYNCH.

ASSOCIATES WALLACE F. GROSVENOR, CAREY CULBERTSON.

ASSISTANT WALTER B. FEHRING.

CLINICAL ASSISTANTS H. L. HUKILL, M. O. PORTER, I. RASMUSSEN, MARIE SCHMIDT, HARRIET B. JENNINGS, SARA A. JANSEN.

INTRODUCTORY

The subject of Obstetrics is taught by lecture and conference course in the Junior Year, a practical course in obstetric manipulations upon the manikin, and by clinical conferences in which the class, in small sections, examine patients in various institutions. During the Senior Year students are assigned to cases of labor in these institutions and at the homes of patients, being allowed to conduct the same under the direction of the assistant who accompanies him.

Gynecology is taught by lectures (didactic and clinical), microscopic and naked eye demonstrations, conference and "touch" courses. Clinical material is furnished by the Presbyterian Hospital and the Central Free Dispensary. A minimum of three Majors of credit in this department is required for graduation.

Any recent standard textbook may be used for the courses in this department.

COURSES OF INSTRUCTION

OBSTETRICS

JUNIOR YEAR

1. **A Lecture and Recital Course.**—On anatomy and physiology of the female organs of generation, on normal pregnancy, labor and the puerperium.

Tues., Thur., Sat., 9:00.

Autumn Quarter. .6Mj

DR. LYNCH

2. **A Lecture and Recitation Course.**—On the pathology of pregnancy, labor and and puererium.

Tues., Thurs., Sat., 9:00.

Winter Quarter. .6Mj

ASSISTANT PROFESSOR PADDOCK

Prerequisite: *Course 1.*

In the above courses Professor Webster's textbook of Obstetrics is used.

3. **Laboratory Course.**—In the Normal and Pathological Histology of the female generative organs, especially during pregnancy.

Tues., Fri., 3:00-5:00.

Second Term, Winter and Spring Quarters. .4M

DR. LYNCH AND DR. FEHRING

JUNIOR AND SENIOR YEARS

4. **Practical Obstetrics.**—A course given to the class in sections of 12 students bi-weekly through each Quarter. .4Mj

Prerequisites: *Courses 1 and 2.*

Summer Quarter.

Tues., Fri., 10:00-12:00.

DR. GROSVENOR

Autumn Quarter.

Tues., Thurs., 1:00-3:00.

ASSISTANT PROFESSOR HOLMES

Winter Quarter.

Mon., Fri., 1:00-3:00.

DR. CULBERTSON

Wed., Sat., 10:00-12:00.

DR. GROSVENOR

Spring Quarter.

Mon., Thurs., 10:00-12:00.

ASSISTANT PROFESSOR PADDOCK

Tues., Sat., 1:00-3:00.

ASSISTANT PROFESSOR HOLMES

Mon., Fri., 1:00-3:00.

DR. CULBERTSON

5. **Clinical Conference Course in Obstetrics.**—Limited to twenty-five students. Management of Labor: Asepsis and Antisepsis. Selected Topics in the Pathology of Pregnancy—Affections of the Circulatory System, Kidney Diseases (Eclampsia). Abortion and Miscarriage. Ectopic Pregnancy. Diseases of the Ovum.

Mon., Thur., 11:00.

.4 Mj

Autumn Quarter

DR. CULBERTSON

Spring Quarter

DR. KEYES

Prerequisite: *Courses 1, 2, and 4.*

6. **A Clinical Conference Course in Obstetrics.**—Limited to twenty-five students. Selected topics in the Pathology of Labor and the Puerperium: Placenta Previa, Ablatio Placentae, Post Partum Hemorrhage, Adherent and Retained Placenta, Rupture of Uterus, Inversion of Uterus. Puerperal Infection, Asphyxia Neonatorum.

Mon., Thurs., 11:00. .4 Mj

Winter Quarter

ASSISTANT PROFESSOR HOLMES OR DR. KEYES

Tues., Fri., 9:00.

Summer Quarter

ASSISTANT PROFESSORS PADDOCK OR LEWIS

Prerequisite: *Courses 1, 2, and 4.*

SENIOR YEAR

7. **Clinical Obstetrics.**—In the Maternity Department of the Presbyterian Hospital, Charity Hospital, Chicago Lying-in Dispensary, Chicago Maternity, and Central Free Dispensary, under the direction of PROFESSOR WEBSTER, ASSISTANT PROFESSOR PADDOCK, DRs. LYNCH, FEHRING, and others.

Attendance upon cases of confinement in various hospitals, and at the homes of the patients. Required of each student before graduation. Each student will be summoned to cases at the time of delivery, and will attend the patients during and after delivery, under supervision. Clinical records must be kept by students and certificates obtained.

Throughout the year. .4 M

GYNECOLOGY

JUNIOR YEAR

8. **Gynecology.**—A lecture course.

Tues., Thurs., Sat., 9:00 A.M.

.6 Mj

Autumn Quarter

DR. KEYES

Spring Quarter

ASSISTANT PROFESSOR LEWIS

9. **Gynecological Diagnosis.**—A laboratory course illustrating the histology and pathology of the female generative organs with special reference to clinical diagnosis. .4 M

First Term, each Quarter throughout the year.

Mon., Thurs., 10:00–12:00.

ASSISTANT PROFESSOR FINDLEY

JUNIORS AND SENIORS

10. **Dispensary Clinics.**—Conferences in Practical Gynecology, limited to small sections.

Daily, 10:00–12:00, throughout the year. .4 M

ASSISTANT PROFESSORS FINDLEY, LEWIS,
AND DR. KEYES.

SENIOR YEAR

11. **College Clinics.**—In Gynecology and Obstetrics Each Quarter. Throughout the year.

Wed., Sat., 8:30–10:00.

.4 Mj

PROFESSOR WEBSTER, ASSISTANT
PROFESSORS FINDLEY AND LEWIS

12. **Special Laboratory Work.**—For a limited number of students selected by the department staff.

.5 to 1 Mj

X. DEPARTMENT OF DISEASES OF THE CHEST, THROAT, AND NOSE

OFFICERS OF INSTRUCTION

PROFESSOR AND HEAD OF THE DEPARTMENT OF DISEASES OF THE CHEST, THROAT, AND NOSE, E. FLETCHER INGALS.

ASSOCIATE PROFESSOR JOHN EDWIN RHODES.

ASSISTANT PROFESSORS CHARLES J. WHALEN, OTTO T. FREER.

INSTRUCTORS J. F. DOLAMORE, GEORGE A. TORRISON, GLENN M. HAMMON, MORLEY D. BATES.

ASSOCIATE N. P. COLWELL.

ASSISTANTS JOHN L. JACQUE, E. L. KENYON, T. W. LEWIS, STANTON A. FRIEDBERG, CAROLINE HEDGER.

CLINICAL ASSISTANTS JOHN RITTER, ROSALIA M. LADOVA, R. E. KEATING, ALEXANDER A. WHAMOND, F. GURNEY STUBBS.

AT THE WEST SIDE HEBREW DISPENSARY

GEORGE MORGENTHAU, ASSISTANT CLINICAL PROFESSOR (*extra-mural*).

LOUIS E. GORDON, CLINICAL ASSISTANT (*extra-mural*).

INTRODUCTORY

The work of this department is given to members of the Junior and Senior classes, and includes lecture and recitation courses in the diseases of the chest, throat, and nose; and clinical courses in the Amphitheater and in the Dispensary. A part of the instruction given to small classes in the Cook County and Presbyterian hospitals is devoted to diseases of the chest, so that unusual facilities are afforded for this work. The abundant material available in the Dispensary and hospitals enables the students to observe repeatedly, and examine individually, patients illustrating practically every phase of disease affecting the chest and air-passages, and to see performed the principal laryngological operations. Recitation courses enforce thorough drill in the principles and practice involved. Besides these there are practical courses in physical diagnosis, in laryngology, and in intubation, in which by personal experience the students become familiar with physical signs and with the methods of examination and the use of instruments.

COURSES OF INSTRUCTION

JUNIOR YEAR

1. **A Recitation Course** on physical diagnosis and a practical course in examination of the normal chest, throat, and nose, and intubation of the larynx. .3Mj

Recitation: Tues., 8:00. .3Mj

Practical: Thurs. or Sat., 8:00.

Summer Quarter DR. COLWELL.

Autumn Quarter DRS. HAMMON, BATES,
COLWELL, LADOVA

4. **Physical Diagnosis.**—A practical course of 12 hours in diseases of the chest, and 12 hours in diseases of the throat and nose. Given to sections of twelve, each Quarter, throughout the year.

Mon., Wed., Fri., 1:00-2:00. .2Mj

DRS. JACQUE, RITTER

Tues., Thurs., Sat., 1:00-2:00. DR. LEWIS

Prerequisite: *Course 1.*

5. **Junior Dispensary Clinics.**—In the Central Free Dispensary. Given to sections of twelve each Quarter throughout the year. .2Mj

Mon., Wed., Fri., 1:00-2:00.

Tues., Thurs., Sat., 1:00-2:00.

ASSISTANT PROFESSOR FREER,
DRS. DOLAMORE, TORRISON

Assisted by

DRS. JACQUE, KENYON, LEWIS,
RITTER, KEATING, STUBBS

Prerequisite: *Course 1.*

SENIOR YEAR

6. **A Didactic Course** in diseases of the chest, together with some of the principal diseases of the throat and nose.

Tues., Thurs., and Sat., 8:00. .6Mj

Winter Quarter.

ASSOCIATE PROFESSOR RHODES AND
ASSISTANT PROFESSOR WHALEN

7. **A Lecture and Recitation Course.**—Dealing with special diseases of the throat and nose. .3Mj

Mon., Wed., Fri., 8:00.

First Term, Autumn Quarter, DR. TORRISON

First Term, Spring Quarter, DR. DOLAMORE

8. **The Arena Clinic.**—A clinical course in diseases of the chest, throat, and nose. (Each Quarter throughout the year.)

Wed., 2:00-4:00. .3Mj

Summer Quarter.

ASSISTANT PROFESSOR FREER AND DR. BATES

Autumn and Winter Quarters.

PROFESSOR INGALS

Spring Quarter.

ASSOCIATE PROFESSOR RHODES

9. **Senior Dispensary Clinics.**—In the small clinic room on the second floor of Senn Hall, given to sections of 36. (Each Quarter throughout the year.) .2Mj

a, Tues., Thurs., 2:00-3:00.

DR. TORRISON

b, Mon., Fri., 2:00-3:00.

ASSISTANT PROFESSOR FREER, or DR. RITTER

c, Sat., 1:30-3:30.

DR. DOLAMORE, or DR. LEWIS

10. **Advanced Diagnosis Course.**—For Seniors in diseases of the chest, throat, and nose. Limited to twelve students per section, each section occupying 24 hours. (Each Quarter throughout the year.) .2Mj

Mon., Wed., 2:00-3:00. DR. FRIEDBERG

Tues., Thurs., Sat., 1:00-2:00. DR. ———

12. **Seminar.**—A course offered only to Seniors who have completed a Major of work in this department with an *excellent* grade. Each student will pursue a course of reading on the subject assigned making brief abstracts of the articles read, and from these abstracts write a thesis. Each Quarter throughout the year. The credit, according to the quality of work done, will be .2 to 1Mj.

Subjects for 1905 :

"Nasal Polypi,"

"Malignant Growths of the Larynx,"

"Paralysis of the Vocal Cords."

"Pneumothorax."

DR. COLWELL

15. **A Clinical Course.**—(*Extra-mural*.) At the West Side Hebrew Dispensary, in the disease of the

throat, nose and ear. Classes limited to eight students.

Each Term throughout the year.

Mon., Thurs., 2:00-4:00.

.4M

ASSISTANT CLINICAL PROFESSOR

MORGENTHAU AND DR. GORDON

Students taking this course should register at the same time for Course VII-30.

XI. DEPARTMENT OF OPHTHALMOLOGY AND OTOTOLOGY

OFFICERS OF INSTRUCTION

PROFESSOR AND HEAD OF THE DEPARTMENT OF OPHTHALMOLOGY AND OTOTOLOGY, FERDINAND C. HOTZ.

ASSISTANT PROFESSORS CASSIUS D. WESCOTT, WILLIAM H. WILDER.

INSTRUCTORS L. E. SCHWARZ, GEORGE E. SHAMBAUGH.

ASSOCIATES E. V. L. BROWN, HENRY R. BOETTCHER, BROWN PUSEY.

ASSISTANTS JOHN B. ELLIS, DAVID FISKE.

CLINICAL ASSISTANTS LORENZO N. GROSVENOR, F. I. BROWN, G. H. BOOT.

INTRODUCTORY

The courses in this department are designed to furnish the student that scope of knowledge of the diseases of the eye and ear, which every well-educated physician ought to possess. It is, therefore, our aim to select for the clinical demonstrations chiefly those diseases which are of the greatest interest to the practitioners. The students are given the privilege of examining the cases, of studying the progress of the diseases and the effect of the treatment from day to day; and also of witnessing the delicate technique of the operations on the eye and ear. Each exhibition of cases is followed by a brief discourse on the etiology, pathology, symptomatology, and treatment of the disease under observation.

Numerous courses are offered in ophthalmoscopy in which the student will learn the use of the ophthalmoscope by practical exercises on schematic and living eyes. Each student must provide himself with an ophthalmoscope.

Courses are also given to train the student in the methods of examining and treating the ear.

Special courses for small classes on the normal and morbid anatomy and histology of the eye and ear are made particularly instructive by the exhibition of anatomical preparations and microscopic slides.

COURSES OF INSTRUCTION

1. **A Clinical Lecture Course.**—Throughout the year.

Mon., Wed., Fri., 2:00-4:00.

.6Mj

Summer Quarter.

ASSISTANT PROFESSOR WESCOTT

AND DR. BOETTCHER

Autumn Quarter.

PROFESSOR HOTZ

Winter Quarter.

PROFESSOR HOTZ

Spring Quarter.

PROFESSOR HOTZ AND DR. SHAMBAUGH

2. **Courses in Ophthalmoscopy.**—To sections of ten students; each section one term.

Mon., Thurs., 3:00-4:00.

.2M

Summer Quarter.

DR. ELLIS

Mon., Thurs., 3:00-4:00.

Autumn Quarter.

DR. BROWN

Tues., Fri., 3:00-4:00.

Winter Quarter.

DR. SCHWARZ

Wed., Sat., 3:00-4:00.

Spring Quarter.

DR. BOETTCHER

3. **Practical Courses in Otology.**—To sections of ten students; each section one term.

Tues., Fri., 2:00-3:00.

Autumn Quarter.

DR. SHAMBAUGH

Wed., Sat., 2:00-3:00.

Winter Quarter.

DR. FISKE

Mon., Thurs., 2:00-3:00.

Spring Quarter.

DR. BROWN

4. **Anatomy of the Ear.**—Class limited to ten students.
Tues., 3:00–4:00.
Winter Quarter. DR. SHAMBAUGH
5. **Normal and Pathological Anatomy of the Eye.**
Limited to ten students.
Tues., 10:00–12:00.
Autumn Quarter. DR. PUSEY
Tues., 10:00–12:00.
Spring Quarter. DR. PUSEY
6. **Clinical Courses.**—(*Extra-mural.*) At the Illinois Eye and Ear Infirmary. Class limited to ten students for the Quarter.
Thurs., Sat., 2:00–4:00.
ASSISTANT PROFESSOR WILDER
Tues., 2:00–4:00. DR. BOETTCHER
Wed., 2:00–4:00. DR. DODD
7. **Clinical Course.**—(*Extra-mural.*) At the Cook County Hospital.
Fri., 8:00–9:00.
Autumn and Spring Quarters. DR. PUSEY

XII. DEPARTMENT OF SKIN AND VENEREAL DISEASES

OFFICERS OF INSTRUCTION

PROFESSOR AND HEAD OF THE DEPARTMENT OF SKIN AND VENEREAL DISEASES

JAMES NEVINS HYDE.

ASSOCIATE PROFESSOR FRANK HUGH MONTGOMERY.

ASSISTANT PROFESSOR ALFRED SCHALEK.

INSTRUCTOR OLIVER S. ORMSBY.

ASSOCIATES ERNEST L. McEWEN, WILLIAM A. QUINN.

ASSISTANT WILLIAM L. McBRIDE.

CLINICAL ASSISTANTS JOSEPH WELFELD, W. J. M. CUNNINGHAM.

INTRODUCTION.

The work of this department is elective and offered to members of the Senior class. Instruction is given by clinical teaching both in the College amphitheater and in the Dispensary, by recitations, and by demonstrations to small classes, of clinical, bacteriologic, and pathologic phenomena.

Instruction in this department is supplemented by ample use of the large collection of dermatological plates, atlases, and photographs arranged in cases in proximity to the upper amphitheatre; also by use of the Baretta models procured in Paris for use of this department. The textbooks employed are Hyde and Montgomery's *On the Skin* and Hyde and Montgomery's *Manual of Syphilis and the Venereal Diseases*.

COURSES OF INSTRUCTION

SENIOR YEAR

- Skin, Genito-Urinary, and Venereal Diseases.**—By Drs. SCHALEK, McEWEN AND QUINN. A recitation and conference course given to the class in small sections.
Tues., Thurs., Sat., 8:00.
Each Quarter throughout the year.
One section each Quarter. .6Mj
- Clinical Course.**—Arena Clinic, by PROFESSOR HYDE or ASSOCIATE PROFESSOR MONTGOMERY. A clinical course on the subject of the Diseases of the Skin, the Genito-urinary Organs, and on Venereal Diseases. This clinic has been conducted in the College for more than twenty years, and is attended by a large number of out-patients of both sexes and all ages.
Mon., Fri., 2:00–4:00. Throughout the year.
This course occupies four hours weekly throughout the year. Each Quarter's work constitutes .4Mj
- Demonstration Courses.**—By ASSOCIATE PROFESSOR MONTGOMERY or DR. ORMSBY. A practical

course of clinical, pathologic, and bacteriologic demonstrations in skin and venereal diseases, given to the class in sections of not more than ten.

Mon., Fri., 2:00-4:00.

This course occupies four hours weekly during the Autumn, Winter and Spring Quarters. Each term's (six weeks) work constitutes a .4M

4. **Genito-Urinary Diseases.**—A clinical course in diseases of the genito-urinary tract.

Mon., Fri., 4:00-6:00.

Throughout the year.

Classes limited to forty-eight students.

Each Quarter. .4Mj

ASSOCIATE PROFESSOR BELFIELD

5. **Lecture Course in Senn Hall.**—A lecture course given to the class in small sections, on the relation of diseases of the skin to disorders of other organs. .4 M

Winter Quarter: Each section occupies two hours weekly for six weeks. DR. McEWEN

6. **Histopathology and Bacteriology of the Skin.**—A demonstration course including instruction and practical work in methods peculiar to the study of cutaneous pathology and bacteriology.

Tues., Fri., 4:00-6:00.

Spring Quarter

DR. ORMSBY

Limited to eight students. Each term constitutes a .4M

7. **Clinical Course in the Central Free Dispensary.**—A clinical course given to the class in small sections in the Dermatological and Genito-Urinary Department of the Central Free Dispensary. The student is here brought in personal contact with the patients and required to examine and prescribe for them as he would in private practice.

Daily, 1:00-3:00.

.4M

ASSISTANT PROFESSOR SCHALEK
AND DR. QUINN

8. **A Course on Syphilis**, with special reference to lesions of internal organs (including the bones, testes, and brain), will be given in the Autumn and Spring Quarters. .4M

Mon., Fri., 8:00.

ASSISTANT PROFESSOR SCHALEK

9. **Radiotherapy and Phototherapy.** (Optional)—A practical course with demonstration of the technique of the employment of the X-Ray and the Finsen lamp in diseases of the skin. Several lectures of this course will be given each Quarter at hours arranged. The course is open also to practitioners.

DRS. MONTGOMERY AND ORMSBY

XIII. GENERAL LECTURES AND OPTIONAL COURSES

1. **Medical Jurisprudence.**—A lecture course supplemented by recitations and conferences.

Winter Quarter

Hours to be announced. .6M

PROFESSORIAL LECTURER, JUDGE HENRY V.

FREEMAN AND DR. JAMES C. GILL

2. **The History of Medicine.**—A lecture course by

Winter Quarter

Hours to be announced.

Optional course.

3. **Examinations for Life Insurance.**—A lecture and conference course on the nature and purpose of life insurance; the duties and essential qualifications of the examiner for life insurance, etc.

Quarter

Hours to be announced.

Optional course.

Lectures on subjects related to the sciences of Physics, Chemistry, and Biology, in their relation to medicine, will be given during the Winter and Spring Quarters. Detailed statement of these courses will be announced later.

Lectures were delivered during the Winter Quarter of 1905 as follows: "On Medical Examination for Life Insurance," three lectures by DR. GEORGE A. HARLOW, Asst. Medical Director N. W. Mutual Life Ins. Co., Milwaukee, Wis., Feb. 17 and Mch. 1 and 3; "The Relation of the Municipality to Tuberculosis," by DR. GEORGE W. WEBSTER, President of the Illinois State Board of Health, Feb. 24; "The Ideals of the Medical Profession," by DR. MAXWELL FOSHAY, Western Medical Director, Mutual Life Insurance Co. of N. Y., of Chicago, March 10.

LABORATORIES, EQUIPMENT, AND LIBRARIES

THE HULL BIOLOGICAL LABORATORIES

On December 14, 1895, Miss Helen Culver, of the city of Chicago, presented the University of Chicago with property valued at \$1,000,000—the whole gift, according to the terms of the letter of endowment, to be devoted to the increase and spread of knowledge within the field of the biological sciences. From this fund there have been erected, at the north end of the University grounds, four buildings to serve as laboratories for the Anatomical, Botanical, Physiological, and Zoological Sciences. Medical instruction is given in the Anatomical, Physiological, and Zoological Laboratories.

THE ANATOMICAL LABORATORY

The Anatomical Laboratory is 120 by 50 feet, and four stories high, exclusive of the basement and attic, and was constructed to provide for Anatomy, both gross and microscopic, including Neurology. In the basement are special rooms for keeping frogs and similar animals at low temperatures, a bone-room, and a cold-storage room for anatomical material, and a crematory. The first floor is occupied by three large laboratories for microscopic work (Histology, Microscopic Anatomy, Neurology, and Pathology), and a large photographic room containing a stone pier and connected with a dark-room. On the second floor there is an additional room for general class work in microscopic branches, a lecture-room, and an osteological laboratory. Here, too, are located the laboratories of the staff in Neurology and a laboratory for advanced work and original research in Neurology. On the third and fourth floors are situated the dissecting-rooms for Human Anatomy, the private laboratories for instructors and research workers, and two laboratories for the making of special preparations. In the attic there is a well-lighted operating-room adjoining a large animal room; in addition, several storerooms are situated here. The laboratories are well equipped for work in gross and microscopic Anatomy and in Pathology, and especial facilities are afforded for advanced work and original research.

THE PHYSIOLOGICAL LABORATORY

The Physiological Laboratory is 102 by 52 feet and four stories high, exclusive of the basement and attic. The basement contains a cold-storage room, aquarium room, an animal room, dark-room, and storerooms.

It is connected with the greenhouse of the laboratory. The first floor contains general laboratories for beginners, a shop, a storeroom, a lecture-room, and a photographic room. The second floor contains a large lecture-room with preparation room and storeroom, the departmental library, an optical room, two dark-rooms, and a private laboratory. The third floor contains two laboratories for advanced workers in Physiology, a laboratory for beginners in Physiological Chemistry and Pharmacology, a balance-room, and several smaller rooms for work in Physiological Chemistry and Pharmacology. The fourth floor contains two rooms with cages for animals and two operating-rooms. In addition, two laboratories for work in Physiological Chemistry and Pharmacology, a combustion room, and a room for work in gas analysis. The laboratories are well equipped both for general instruction in Physiology, Physiological Chemistry, and Pharmacology, and for advanced and research work in these sciences.

THE ZOÖLOGICAL LABORATORY

The Zoölogical Laboratory is 120 by 50 feet, and four stories high, exclusive of the basement. On the first floor are located the library of the biological departments, a synoptical museum, a large laboratory for elementary Zoölogy, and a laboratory for research work in Pathology. The second floor contains one large laboratory for beginners in research, and a number of smaller laboratories for more advanced work. The third floor contains three large laboratories for comparative Anatomy and Embryology, and a number of rooms for research. The fourth floor is devoted to the laboratories of Bacteriology, which are supplied with sterilizers, incubators, special microscopes, and other bacteriological apparatus, and are furnished with tables for microscopical work and for the usual laboratory manipulations. The basement contains one large room with glass-covered extension on the south side, designed for an aquarium; two rooms for use as aviaries, vivaria, etc.; one room for paleontological material; and one for taxidermy and museum purposes. The best optical and other apparatus demanded by zoölogical work are provided. There are series of models and charts illustrating embryological and morphological subjects, and ample facilities for keeping land and aquatic animals under favorable conditions for study.

THE KENT CHEMICAL LABORATORY

The Chemical Laboratory was provided by the generosity of Mr. Sidney A. Kent, is 176 by 64 feet, and is three stories high exclusive of the basement. An amphitheater seating 750 people forms an annex to the building. Lectures are given in rooms on the first floor. The laboratory instruction in General Inorganic and Elementary Organic Chemistry is given on the third floor in three large laboratories accommodating 300 students. Each student is given a separate desk supplied with gas and water, and is furnished

with all necessary chemicals and apparatus. The laboratories for analytical chemistry are on the second and third floors. The advanced work in Chemistry is done in general and private laboratories on the first and second floors. There are a number of small rooms used as balance, combustion, gas-analysis, photographic rooms, etc. The Chemical Library contains full sets of the most important journals, books of reference, and other works relating to Chemistry.

THE LIBRARIES

The General Library is located on the corner of Fifty-eighth Street and Ellis Avenue. The building now occupied is temporary and is to be used until such time as a permanent library building may be erected.

The General Library is for the use of students in all departments of the University. Students who have matriculated may take at one time three volumes from the General Library. These may be kept two weeks, and at the end of that time, if desired, may be renewed for two weeks.

Former students may continue the use of the Library by the payment of the library fee of \$2.50 per Quarter.

The total number of books at present in the Library is approximately 424,337.

Number of volumes in Departmental Libraries of departments concerned in medical instruction, July 1, 1905: Biology, including Anatomy, Neurology, Physiology, Bacteriology, Pathology, Zoölogy, Physiological Chemistry, and Pharmacology, 14,774; Chemistry, 2,194; Physics, 2,098.

All the branch and Departmental Libraries are catalogued and classified. Most of the collections in the General Library are now permanently arranged.

The General Library is open on every week-day from 8:30 A.M. to 5:30 P.M. The Library receives 1,359 current periodical publications, including the transactions and proceedings of learned societies; the foreign serials alone numbering not less than 674. The Departmental Libraries are closed at 6 P.M., and are not open during the evening except to those to whom special permission has been granted by the departmental adviser.

The students of the University are permitted to use the books and periodicals in the Newberry Library and in the Crerar Library, both of which contain a large number of medical and general scientific works.

The Public Library of Chicago is also available to medical students for general reading.

BUILDINGS, EQUIPMENT, AND HOSPITAL FACILITIES AT RUSH MEDICAL COLLEGE

The Clinical Building, situated upon the corner of West Harrison and Wood Streets is 60 by 80 feet, and four stories in height. The first floor is occupied by the college library and reading-room. On the second floor are situated the offices of the College, the lower amphitheater, seating 400, and clinical waiting-rooms. The third floor contains the upper amphitheater, seating 530 persons, a large surgical examining and dressing-room, five clinical examining-rooms, and a waiting-room for patients. The fourth floor is occupied in part by the upper amphitheater, and in part by the laboratory for surgical and orthopedic appliances and bandaging.

Senn Hall, now completed, through the munificence of Professor Senn and other members of the Faculty, adjoins the Clinical Building on the east. It covers a ground space of 40 by 90 feet, is seven stories in height (including the basement), and of absolutely fireproof construction. The basement and first three floors, affording over 10,000 square feet of floor space, is devoted to the dispensary and the clinical teachings connected therewith. The fourth and fifth floors are occupied by clinical laboratories and recitation rooms. The remaining two stories contain two surgical and medical amphitheaters, seating about 150 each, with necessary waiting and preparation rooms.

The Laboratory Building, on the south side of Harrison Street, is 100 by 45 feet in area, and six stories in height (including the basement). The basement is occupied by storage-rooms for apparatus, an animal room for the laboratory of Pathology and Bacteriology, and a cloak-room for students. Adjoining the basement is a separate building for the preparation and storage of cadavers by the cold-storage process, with a capacity for about 200 bodies. The first and second stories are devoted to the Department of Pathology and Bacteriology, which is fully equipped with the necessary microscopes and other apparatus for advanced work in these branches. The third floor is occupied by the Department of Chemistry and Toxicology, and is supplied with all of the necessary apparatus and materials for advanced work in these branches in their relation to practical medicine. The fourth floor contains four recitation rooms and a

laboratory for Pharmacy and Therapeutics. The fifth floor is devoted to advanced work in practical gross Anatomy, and to Operative Surgery.

The Presbyterian Hospital, with accommodations for 250 patients, adjoins the College, and is connected with it, so that patients can be transferred directly from the wards to the clinical amphitheaters. In this hospital over 2,000 patients are treated annually, and it thus affords a large amount of valuable material for the clinics.

In the Cook County Hospital, which is situated opposite the College, are treated about 20,000 patients annually. In this institution are given about forty clinics a week, including all varieties of medical and surgical cases. The facilities for the study of Pathology which are afforded at the Cook County Hospital are unexcelled in this country. Between 300 and 400 post-mortems are made annually in the necropsy theater by Professor Hektoen and the other pathologists of the Hospital.

The Library and Reading-Room, which has heretofore occupied the fourth floor in the Chicago College of Dental Surgery, has been transferred to the first floor of the Clinical Building, which adds to the convenience of students. The library contains about 14,000 volumes, and files of all the leading medical journals in English, German, and French.

Extra-Mural Courses.—Through the courtesy of the medical attendants and managing officers of several hospitals and dispensaries within convenient distance of the College, *extra-mural* clinical courses are offered to the students of Rush, in small groups, and the clinical material available for teaching has thus been greatly augmented. Such courses are offered at the West Side Hebrew Dispensary, treating about 30,000 cases annually; at the St. Luke's Hospital, with about 2,000 cases annually; at the Illinois Charitable Eye and Ear Infirmary, treating about 1,000 cases; and at the Chicago Isolation Hospital, where about 500 cases of smallpox were received during the past year; at St. Anthony's Hospital, with about 100 beds; and at the Alexian Brothers' Hospital, with about 200 beds.

FELLOWSHIPS, HOSPITAL INTERNES, AND PRIZES

(RUSH MEDICAL COLLEGE)

FELLOWSHIPS

The following Fellowships, each yielding an income of \$400 annually, are awarded each year: one in Chemistry, two in Pathology, one in Medicine, and one in Surgery. The Fellowships are awarded to graduates in medicine recognized as in every way best qualified for the positions. Each Fellow devotes the year succeeding his appointment to original investigation under the direction of the Professor of the Department in question in the laboratories of the College. He is required to devote some time of each day in the college year to the instruction of students, and has opportunity to attend the clinics and pursue other lines of collegiate study.

HOSPITAL INTERNES

Positions as internes, through a competitive examination held by the respective hospital staffs, are open each spring to graduates of Rush Medical College in the following Chicago hospitals: the Presbyterian, the Cook County, the Michael Reese, the St. Joseph's, the St. Elizabeth's, the St. Luke's, the Augustana, the Chicago, the Alexian Brothers', the Passavant, the Chicago Polyclinic, the German, the Norwegian, the Illinois Charitable Eye and Ear Infirmary, the Baptist, St. Anthony's, the Swedish, the Chicago Maternity, and in a much larger list of institutions outside of the city of Chicago which make appointments from the roll of qualified students of the Senior class in Rush Medical College.

The occupants of these positions receive their board and lodging, and acquire experience in every department of practical Medicine and Surgery.

PRIZES

THE BENJAMIN RUSH PRIZE

A medal of the value of \$50 is given by the Faculty at each commencement to that member of the graduating class who passes the highest examination in every department of Medicine represented that year in the examination for the degree.

THE DANIEL BRAINARD PRIZE

A medal is annually given by the Faculty to the student who makes and presents to the College Museum the best accepted dissection in Surgical Anatomy.

THE FREER PRIZES

These prizes are derived from the income of a fund presented to the College by the late Nathan M. Freer, of the Board of Trustees, as a memorial of the names of two honored members of his family long identified with the highest interests of this institution.

The J. W. FREER Medal and the sum of \$50 are awarded as a first prize to that member of the Junior or Senior class who presents the best thesis involving original investigation on the part of the student. A second prize of \$25 is awarded to the next successful competitor. The theses must be submitted to the Dean of Students on or before the first of April, 1906.

The L. C. P. FREER Medal and the sum of \$50 are offered for the year 1905 as a first prize to that member of the Freshman or Sophomore class who presents the best thesis involving original investigation on the part of the student. A second prize of \$25 will be awarded to the next most successful of the competitors. *This prize will be competed for by students in the medical courses of the University.* The theses must be placed in the hands of the Dean of Students by April, 1906.

THE EDWARD L. HOLMES PRIZE

In honor of the late Edward L. Holmes, for many years the Professor of Diseases of the Eye and Ear in Rush Medical College, and for several years its President, and who during his long career rendered distinguished services to the institution, the Trustees have established the EDWARD L. HOLMES Prize for original research, to consist of a table and Scholarship for one season, at the Marine Biological Laboratory at Woods Holl, Mass. This prize is offered in recognition of the great service which is rendered to the medical sciences by research work in biology. The prize will not be offered for 1905-6.

OCCUPANTS OF INTERNESHIPS

The following students have secured internships, by examination and appointment, during the year. The duration of service of these internships varies from one to two years:

Oyen, A. N.....	Alexian Brothers' Hospital	Menzies, R. C.....	Presbyterian Hospital
Mason, S. C.....	Chicago Baptist Hospital	Hill, J. C.....	Presbyterian Hospital
Fairchild, J. H.....	Chicago Baptist Hospital	Klick, J. J.....	Presbyterian Hospital
Marvel, W. J.....	Chicago Charity Hospital	Mosher, G. W.....	Presbyterian Hospital
McCumber, C. N.....	Chicago Lying-in Hospital	Perry, W. J.....	Presbyterian Hospital
Sloane, H. F.....	Chicago Union Hospital	Freytag, C. F.....	Presbyterian Hospital
Stacy, Leda June.....	Children's Hospital, San Francisco, Cal.	Stewart, W. E.....	Presbyterian Hospital
McKenna, C. M.....	Columbus Hospital	Hunter, C. D.....	Presbyterian Hospital
Olsen, M. I.....	Cook County Hospital	Taylor, J. H.....	Presbyterian Hospital
Myers, J.....	Cook County Hospital	Allison, O. W.....	Presbyterian Hospital
Oliver, A. S.....	Cook County Hospital	Smith, W. J.....	Saginaw General Hospital, Saginaw, Mich.
Wetzler, S. H.....	Cook County Hospital	Hayden, A. A.....	St. Elizabeth's Hospital
Willard, H. G.....	Cook County Hospital	Lowe, A. L.....	St. Elizabeth's Hospital
Dick, G. F.....	Cook County Hospital	Heinen, J.....	St. Elizabeth's Hospital
Kirtley, H. P.....	Cook County Hospital	Purcell, A. C.....	St. Elizabeth's Hospital
Shirley, W. M.....	Cook County Hospital	Knox, J. M.....	St. Elizabeth's Hospital
Howell, E. J.....	Cook County Hospital	McCumber, A. I.....	St. Francis' Hospital, Colorado Springs, Col.
Vaughan, R. T.....	Cook County Hospital	Hays, W. H.....	St. Joseph's Hospital
Spooner, J. P.....	Cook County Hospital	Senn, G.....	St. Joseph's Hospital, St. Joseph, Mo.
Jacobs, W. H.....	Dunning	Hoyne, A. L.....	St. Luke's Hospital
Boose, W. R.....	Englewood Union Hospital	Klein, S.....	St. Luke's Hospital
Rathje, F. C.....	German Hospital	Brown, R. S.....	St. Luke's Hospital
Williamson, N. E.....	Hospital appointment under Panama Canal Commission	Adams, J. F.....	St. Mark's Hospital, Salt Lake City, Utah
Krahn, A. J.....	Knowlton Hospital, Milwaukee, Wis.	Neher, E. M.....	St. Mark's Hospital, Salt Lake City, Utah
Baer, J. L.....	Michael Reese Hospital	Shanklin, R. C.....	St. Mary's Hospital, Milwaukee, Wis.
Braude, M.....	Michael Reese Hospital	Ludden, H. D.....	St. Mary's Hospital, Milwaukee, Wis.
Buchsbaum, M.....	Michael Reese Hospital	Lynch, M. J.....	St. Mary's Hospital, Minneapolis, Minn.
Halperin, G.....	Michael Reese Hospital	Stevenson, F. H.....	South Side Hospital, Pittsburg, Pa.
Melaas, W. G.....	Milwaukee County Hospital, Wauwatosa, Wis.	Ingbert, C. E.....	State Hospital, Independence, Iowa
Tate, L. N.....	Milwaukee Hospital, Milwaukee, Wis.	Mackintosh, J. A.....	State Hospital, Mt. Pleasant, Iowa
Leete, H. N.....	Milwaukee Hospital, Milwaukee, Wis.	Quist, F. J.....	Swedish Covenant Hospital
Bendixen, P. A.....	Monroe Street Hospital	Badger, R. R.....	Toledo City Hospital, Toledo, Ohio
Gleysteen, D. J.....	Passavant Hospital	Mattox, Ernest L.....	Union Hospital, Terre Haute, Ind.
Beaton, L. A.....	Presbyterian Hospital	McCord, Frances.....	Woman's Hospital

FELLOWSHIPS AND SCHOLARSHIPS AT THE UNIVERSITY OF CHICAGO

1. *The University Fellowships.*—The University appropriates annually the amount of twenty thousand dollars (\$20,000) for Fellowships in the Graduate Schools. These Fellowships are awarded by the Trustees upon the recommendation of the President and the nomination of particular Departments. Each year about seventy Fellowships are assigned, ranging in individual value from \$120, or the tuition fees of a student for three Quarters, to \$520.
2. *Applications for Fellowships.*—Applications for Fellowships should be addressed to the President of the University, and should be in his hands on or before March 1.
3. *Appointments to Fellowships.*
 - a) *Date.*—The annual assignment of Fellowships is made about the first of April. A Fellowship is available for any three of the four Quarters beginning with the Summer Quarter following the date of appointment.
 - b) *Attainments required.*—The candidate must have attained proficiency in some department. In general he should have spent at least one year in resident study after receiving his Bachelor's degree. In making the appointment special weight is given to theses indicating the candidate's ability to conduct original investigation.
4. *Special Fellowships.*—In addition to the regular University Fellowships mentioned above, there are special Fellowships offered by individuals. These vary somewhat in number and amount from year to year. At present they are as follows:
 - a) *The William A. and Fanny C. Talcott Fellowships and Scholarships.*—In 1896 William A. Talcott, of Rockford, Ill., endowed four Fellowships and Scholarships, two of which bear his name and two the name of his wife, Fanny C. Talcott. They are intended primarily for the benefit of graduates of Rockford College, but, in the absence of such beneficiaries, may be assigned to others. They pay the tuition fees of those appointed to them.
 - b) *The Bucknell Fellowship*, yielding \$400, offered by Mr. Charles Miller, of Franklin, Pa., is open to graduates of Bucknell University. The appointment to this Fellowship is made by the faculty of Bucknell University.
 - c) *The Joseph B. Loewenthal Fellowship in Chemistry*, endowed by Mr. Berthold Loewenthal, of Chicago, as a memorial of his son, Joseph B. Loewenthal. It yields about \$420 to the incumbent annually appointed, and is awarded on the nomination of the Department of Chemistry and the recommendation of the President of the University.
5. *Graduate Scholarships.*—The Scholarships available for students in the Graduate Schools are as follows:
 - a) *Scholarships for excellence in the work of the Senior Colleges.*—The University offers twenty Scholarships for excellence in the work of the Senior Colleges. The Scholarships are assigned annually, in the Spring Quarter, on the nomination of the Board of the Senior Colleges. Each Department of the University, with the approval of the Committee on Scholarships, has the privilege of naming a student who is for that year the honor student of the Senior Colleges in that Department, and to this student there is given a Graduate Scholarship yielding in each case a sum equal to the University tuition fees for three Quarters (\$120), provided the student continues his studies in the Graduate Schools.
 - b) *The William A. and Fanny C. Talcott Fellowships and Scholarships.*—See under Fellowships.
 - c) *Affiliation Scholarships.*—Under the conditions of affiliation with Kalamazoo College, Des Moines College, Butler College, and John B. Stetson University, the three students who stand highest in scholarship and general excellence in each graduating class are awarded Scholarships covering the University tuition fees for three Quarters (\$120). Under this arrangement the University offers:
 - Three Scholarships to graduates of Kalamazoo College.
 - Three Scholarships to graduates of Des Moines College.
 - Three Scholarships to graduates of Butler College.
 - Three Scholarships to graduates of John B. Stetson University.

d) *Scholarships for teachers in affiliated schools.*—

Under the conditions of affiliation, teachers in the various affiliated schools of the University are assigned vouchers covering the tuition fee. The conditions under which these vouchers may be obtained will be mailed on application.

e) *Scholarships for Public Speaking.*—

Three Scholarships, each yielding the amount of \$40, or the tuition fee for a Quarter, are awarded the winners in the preliminary contests in Public

Speaking. In case the winner in a preliminary contest has previously secured a Scholarship in this way in the Graduate Schools, the award is made to the second in rank.

f) *Scholarships for officers.*—Forty Scholarships, each yielding the tuition fees for three Quarters (\$120), are assigned annually to members of the Faculties, or wives of members, who may desire to take courses of instruction in the University.

MEDICAL SOCIETIES

The fact that a very large number of medical men practice in Chicago has led to the development of a number of medical societies, general and special. Among the more interesting to medical students in the early years of their course is the Chicago Pathological Society. A large number of clinical societies, notably the Chicago Medical Society and its various branches, will interest the student, particularly in the later years of his course.

The University of Chicago Medical Club meets on the first and third Monday evenings of each month in the lecture-room of the Physiological Laboratory at 8:15 sharp. At the meetings of this society the advanced work and original research of the various laboratories will be reported, and topics of general medical and scientific interest will from time to time be discussed. The meetings will be open to medical students. The society holds no meetings during the Summer Quarter.

ALUMNI ASSOCIATION

The Alumni Association of Rush Medical College holds yearly meetings. These meetings, which precede the regular commencement of the College, will occur on June 12, 13, and 14, 1906. All graduates of the College in good standing are eligible to membership, which can be obtained by the payment of one dollar, the annual dues. The officers for the year ending July 1, 1906, are as follows:

President, Dr. J. W. Pettit, 1884	Ottawa, Ill.
First Vice-President, Dr. A. I. Bouffleur, 1887	Chicago, Ill.
Second Vice-President, Dr. J. H. W. Meyer, 1876	LaPorte, Ind.
Third Vice-President, Dr. John Ritter, 1880	Chicago, Ill.
Necrologist, Dr. C. J. Whalen, 1891	Chicago, Ill.
Secretary and Treasurer, Dr. B. M. Linnell, 1893	Chicago, Ill.

The dues should be sent to the Secretary of the Association, Dr. B. M. Linnell, 100 State Street, Chicago.

The Association publishes a small bulletin four times a year. This for the present will be sent to members without extra charge. The Association also supports a Fellow doing research work in residence at the College. Contributions to this fund are solicited.

Alumni are requested to inform the College Secretary, Dr. B. M. Linnell, 100 State Street, Chicago, of any change of address. They will also confer a favor by sending him a copy of any address, programme, or other document, relating to the early history of the College.

GRADUATES FOR THE SESSION OF 1904-5

THE DEGREE OF DOCTOR OF MEDICINE WAS CONFERRED ON THE FOLLOWING STUDENTS AT THE CLOSE OF THE SUMMER QUARTER, SEPTEMBER 2, 1904

Gideon H. Benson	Frank Stacy Hawley	Martin J. Ivec	Herbert Nelson Leete
Charles Lorton Best	Noble Sproat Heaney	Albert C. Jongewaard	Daniel M. Schoemaker
Harry Elwin Clay	Bayard Holmes, Jr.	Clara Frances Klopsch	Orville DeWitt Wescott
Otis Hoyt Epley	Mary E. Hood	Clarence Alfred Krogh	Harry Gaylord Willard
Alfred Hugh Fowler			

AT THE CLOSE OF THE AUTUMN QUARTER, DECEMBER 19, 1904

Paul Raymond Badger	Charles Emerson Ingbert	Martin Ingeman Olsen	George Senn
Joseph Louis Baer	Arthur Edward Johnson	Carl August Ostling	Harry Francis Sloane
William Rudolph Boose	George Albert Landes	Romney Moore Ritchey	Frank Hastings Stevenson
William W. Bradley	Joseph Rowland Morrell	Max Jason Salamson	Norman E. Williamson
James Henry Fairchild			

AT THE CLOSE OF THE WINTER QUARTER, MARCH 24, 1905

Frank Wesley Allin	James Atwood Mackintosh	George Warner Mosher	Louis Neill Tate
Alfred Ranson Autrey	William Justin Marvel	John Paul Spooner	James Duffield Toy
Otto Wilber McClusky			

AT THE CLOSE OF THE SPRING QUARTER JUNE 16, 1905

Otis Wood Allison	Erestus Talbot Hanley	Ausby Lyman Lowe	Albert Charles Purcell
Lindsay Alexander Beaton	Charles B. Harwood	Homer Dexter Ludden	Frank Julius Quist
Peter Alfred Bendixen	Woodward Harris Hays	Matthew John Lynch	Fred Conrad Rathje
Arthur Wm. Boslough	John Henry Heinen	Frances McCord	Albert Earl Reed
Morris Braude	James Charlesworth Hill	Clarence Nicholas McCumber	Louis Herman Ruegnitz
Raymond Samuel Brown	Harriet Anna Hook	Edgar Henry McCurdy	August Sauthoff
Harry Edward Castle	Emmett James Howell	Charles Morgan McKenna	William Henry Schwingel
Stanly Castle	Charles Dana Hunter	Stephen Coddington Mason, Jr.	Roscoe Lloyd Sensenich
Roswell Dwight Cruikshank	Wilhelmina H. Jacobs	Ernest L. Mattox	Robert Clarence Shanklin
Charles Alanson DeLong	Oliver Anderson Jeffreys	Wilbur Guy Melaas	Wayne McKnight Shirley
George Frederick Dick	Oscar Percy Johnstone	Robert Campbell Menzies	Wallace Joe Smith
Galen Adis Fox	Roy Kneale Keech	Harry Dale Murdock	Leda June Stacy
Charles Fred Freytag	George Wightman Kirby	Jacob Myers	William Edgar Stewart
Richard J. Gleysteen	Sidney Klein	Alfred Shelton Oliver, Jr.	James Hendry Taylor
Robert Harold Goheen	John Joseph Klick	Albert Nelson Oyen	Hubert Van de Erve
David Jones Hale	James McBryde Knox	Everett Ervin Padgett	Sidney Herbert Wetzler
George Halperin	Adolph John Krahn	Wilson James Perry	Edward E. Woodside
	Theodore Kroesch		

4-5

MATRICULATES FOR THE SESSION OF 1905-6

The following list includes only those students who were in attendance during one or more Quarters, and who were entitled to take the Quarterly Examinations.

ABBREVIATIONS.—*u.*= University; *c.*= College; *s.*= School; *hs.*= High School; *a.*= Academy; *sm.*= Seminary; *inst.*= Institute (or institution).

PERIOD OF RESIDENCE.—*s*= Resident during Summer Quarter, 1904. — *a*= Resident during Autumn Quarter, 1904. — *w*= Resident during Winter Quarter, 1905. — *sp*= Resident during Spring Quarter, 1905.

FRESHMAN AND SOPHOMORE CLASSES

NAME	PREVIOUS INSTITUTION	HOME ADDRESS
Abbott, Fred Edgerton, <i>a w sp</i>	S.B. (<i>Northwestern u.</i>) '03	Chicago
Abdian, Gregory Nazareth, <i>w sp</i>	A.B. (<i>Dartmouth c.</i>) '03	Bridgeport, Conn.
Abraham, Joseph, <i>a w</i>	Unclassified (<i>u. of Chicago</i>)	Persia
Adams, Roy Bennett, <i>a w sp</i>	A.B. (<i>u. of Nebraska</i>)	Lincoln, Neb.
Aitken, Arthur N., <i>sp</i>	Junior c. (<i>u. of Chicago</i>)	Harvey
Anderson, Ernest, <i>s</i>	S.B. (<i>u. of Texas</i>) '03; S.M. (<i>Ibid.</i>) '04	Tehuacana, Tex.
Anderson, Robert Adolph, <i>s</i>	S.B. (<i>u. of South Dakota</i>) '00	Dell Rapids, S. D.
Annis, Homer Burnham, <i>a w sp</i>	A.B. (<i>Cornell c.</i>) '03	Osage, Ia.
Arminen, Karlo Vilhelm, <i>a w sp</i>	A.M. (<i>u. of Helsingfors</i>) '98	Hancock, Mich.
Audrain, Leslie Carl, <i>a w sp</i>	S.B. (<i>u. of Texas</i>) '02	Roswell, N. M.
Austrain, Charles Robert, <i>s</i>	A.B. (<i>Johns Hopkins u.</i>) '04	Baltimore, Md.
Ayres, Lloyd Clark, <i>s</i>	Senior c. (<i>u. of Chicago</i>)	Chicago
Barclay, Josephine, <i>s</i>	Graduate (<i>u. of Chicago</i>)	West Liberty, Ia.
Barnes, John H., <i>s</i>	Practitioner	Jett, Okla.
Batty, Arthur Joseph, <i>s</i>	A.B. (<i>Ripon c.</i>) '03	Glen, Wis.
Beatty, Alexander Pearson, <i>a</i>	S.B. (<i>Fiske u.</i>) '03	Selma, Ala.
Beifeld, Arthur Frederick, <i>s a w sp</i>	Ph.B. (<i>u. of Chicago</i>) '02	Chicago
Beifeld, A. H., <i>s</i>	Graduate (<i>u. of Chicago</i>)	Chicago
Berlin, Louis S., <i>sp</i>	Junior c. (<i>u. of Chicago</i>)	Chicago
Bernard, Ransom Drips, <i>a w sp</i>	A.B. (<i>u. of Wisconsin</i>) '04	Waukegan
Bicknell, George Francis, <i>w sp</i>	A.B. (<i>Indiana u.</i>) '05	Gosport, Ind.
Bliss, Guy Luvergne, <i>a w sp</i>	S.B. (<i>u. of Chicago</i>) '03	Somonauk
Blodgett, Harry Hoagland, <i>a w sp</i>	<i>Simpson c.</i>	Indianola, Ia.
Bodman, Edward Whitney, <i>a w sp</i>	A.B. (<i>Williams c.</i>) '03	Chicago
Boot, George William, <i>s</i>	Practitioner	Evanston
Boughton, Thomas Harris, <i>s</i>	<i>Lewis inst.</i>	Chicago
Bowman, Aaron Luther, <i>s</i>	<i>u. of Illinois</i>	Rochester, Ind.
Braunworth, Jessie A., <i>s</i>	<i>Iowa State u.</i>	Muscataine, Ia.
Brown, Benjamin Henton, <i>s a w sp</i>	A.B. (<i>Washington & Lee u.</i>) '93	Waverly, Mo.
Brown, Earle J., <i>s</i>	Practitioner	Chicago
Brown, Frederick Irvine, <i>s</i>	M.D. (<i>Rush Medical c.</i>) '90	Chicago
Buchanan, William Betzer, <i>a</i>	A.B. (<i>Fiske u.</i>) '99	Decatur
Burlingame, L. L., <i>a</i>	Unclassified (<i>u. of Chicago</i>)	Chicago
Calhoun, Frank Warren, <i>a w sp</i>	<i>Amity c.</i>	Mt. Ayr, Ia.
Cheatham, Anderson W. P., <i>a w</i>	S.B. (<i>Fiske u.</i>)	Nashville, Tenn.
Childs, Benjamin, <i>w sp</i>	A.B. (<i>Knox c.</i>) '03	Keithsburg
Coburn, Robert Leroy, <i>a w</i>	Unclassified (<i>u. of Chicago</i>)	Carroll, Ia.
Cole, Fay Cooper, <i>w</i>	S.B. (<i>Northwestern u.</i>) '03	Chicago
Conlin, Frank M., <i>a w sp</i>	Senior c. (<i>u. of Chicago</i>)	Madison, Wis.
Cornell, Edward Lyman, <i>a w sp</i>	Senior c. (<i>u. of Chicago</i>)	Chicago

NAME	PREVIOUS INSTITUTION	HOME ADDRESS
Cornwall, Delos Edward, <i>a w sp</i>	S.B. (<i>u. of Idaho</i>)	Moscow, Idaho
Cuthbertson, Hugh A., <i>s</i>	Practitioner	Chicago
Davis, D. J., <i>w</i>	Graduate (<i>u. of Chicago</i>)	Chicago
Day, Dudley Watson, <i>a w sp</i>	S.B. (<i>u. of Chicago</i>) '04	Ames, Ia.
Dencker, Christian, <i>s</i>	<i>u. of Leipzig</i>	Chicago
De Motte, Roy James, <i>s</i>	A.B. (<i>u. of Illinois</i>) '03	Chicago
De Pew, Heber B., <i>a</i>	A.B. (<i>Hillsdale c.</i>) '04	Wolf Lake, Ind.
Doran, Sadie Celia, <i>a w</i>	Unclassified (<i>u. of Chicago</i>)	Davenport, Ia.
Dorsey, George, <i>a w</i>	Graduate (<i>u. of Chicago</i>)	Chicago
Driscoll, John Joseph, <i>s a w</i>	M.D. (<i>Rush Medical c.</i>) '91	Chicago
Dudley, Frank Church, <i>s</i>	A. B. (<i>Amherst c.</i>) '00	Marlboro, Mass.
Eignus, Chester Arthur, <i>a w sp</i>	Junior c. (<i>u. of Chicago</i>)	Forrest
Elliott, Addison Eugene, <i>a w sp</i>	S.B. (<i>Knox c.</i>) '03	Table Grove
Epplen, Frederick, <i>s w sp</i>	<i>Lewis inst.</i>	Omaha, Neb.
Ewing, Fred E., <i>s w sp</i>	S.B. (<i>Knox c.</i>) '03	Arcola
Fairmanian, Giragos, <i>a w</i>	Unclassified (<i>u. of Chicago</i>)	Turkey
Felts, Harry Bennett, <i>a w sp</i>	Junior c. (<i>u. of Chicago</i>)	Barrow, Wis.
Fidler, Charles, <i>s</i>	<i>Rensselaer hs.</i>	Rensselaer, Ind.
Fischer, William A., <i>s</i>	Practitioner	Chicago
Fischer, Hayden L., <i>w</i>	Junior c. (<i>u. of Chicago</i>)	Kewanee
Fisher, Ralph Stephen, <i>a w sp</i>	<i>Leland Stanford Jr. u.</i>	Chicago
Fitzhenry, Newman Lee, <i>s w</i>	S.B. (<i>u. of Chicago</i>) '04	Lewiston
Forney, Samuel Wilcox, <i>a w sp</i>	Junior c. (<i>u. of Chicago</i>)	Minonk
Fortney, Gerhard O., <i>w sp</i>	S.B. (<i>u. of Wisconsin</i>)	Viroqua, Wis.
Fredrickson, Frederick O., <i>s a w sp</i>	Junior c. (<i>u. of Chicago</i>)	Chicago
Gardner, Miriam, <i>s</i>	<i>Chase s. for Girls.</i>	Pasadena, Cal.
Gerdine, Lynn van Horn, <i>s</i>	<i>Rush Medical c.</i>	Boston, Mass.
Gilfillan, Margery, <i>a w sp</i>	Unclassified (<i>u. of Chicago</i>)	New Castle, Pa.
Gillespie, Edwin Simpson, <i>a w sp</i>	S.B. (<i>Northwestern u.</i>) '03	Kilbourn, Wis.
Goettsch, Emil, <i>a w sp</i>	S.B. (<i>u. of Chicago</i>) '03	Davenport, Ia.
Goldberger, Henry E., <i>s</i>	Practitioner	Chicago
Goodman, Herbert Marcus, <i>a w sp</i>	Senior c. (<i>u. of Chicago</i>)	Chicago
Goodrich, George Erastus, <i>s</i>	Senior c. (<i>u. of Chicago</i>)	Chicago
Gotham, Charles Lewis, <i>s</i>	Senior c. (<i>u. of Chicago</i>)	Milwaukee, Wis.
Gowan, Charles Homer, <i>a w sp</i>	S.B. (<i>Pomona c.</i>) '02	Los Angeles, Cal.
Graham, Evarts Ambrose, <i>s a w sp</i>	<i>Princeton u.</i>	Chicago
Gray, Walter Kempston, <i>s</i>	A.B. (<i>Leland Stanford Jr. u.</i>) '01	Milwaukee, Wis.
Green, John Winston, <i>a sp</i>	Junior c. (<i>u. of Chicago</i>)	Albion, Ind.
Greenberg, Otto, <i>w sp</i>	Unclassified (<i>u. of Chicago</i>)	New York, N. Y.
Groman, Herman Charles, <i>a w sp</i>	A.B. (<i>Yale u.</i>) '04	Odebolt, Ia.
Guillaume, William, <i>a w sp</i>	Unclassified (<i>u. of Chicago</i>)	Elk Point, S. D.
Gulbransen, Ragnhild, <i>sp</i>	Unclassified (<i>u. of Chicago</i>)	Chicago
Gunn, Neil, <i>sp</i>	Junior c. (<i>u. of Chicago</i>)	Chicago
Hale, David Jones, <i>s</i>	S.B. (<i>Michigan Agricultural c.</i>) '98	Benton Harbor, Mich.
Halsey, Henry Allen, <i>a w sp</i>	<i>Leland Stanford Jr. u.</i>	Phoenix, Ariz.
Hamburger, Walter Wile, <i>s</i>	S.B. (<i>u. of Chicago</i>) ; S.M. (<i>Ibid.</i>) '04	Chicago
Hamill, Ralph C., <i>a</i>	Ph.B. (<i>u. of Chicago</i>) '99	Chicago
Hamilton, Nain Delf, <i>s</i>	A.B. (<i>Indiana u.</i>) '02	Markle, Ind.
Hanchett, W. W., <i>s</i>	Graduate (<i>u. of Chicago</i>)	Council Bluffs, Ia.
Harger, John Ross, <i>s</i>	Senior c. (<i>u. of Chicago</i>)	Beatrice, Neb.
Harley, Elmer, <i>s a w</i>	<i>Lewis inst.</i>	Hot Springs, Ark.

NAME	PREVIOUS INSTITUTION	HOME ADDRESS
Harms, Frank Henry, <i>a w sp</i>	Ph.B. (<i>u. of Chicago</i>) '99	Chicago
Hasner, Robert B., <i>w sp</i>	Senior c. (<i>u. of Chicago</i>)	Independence, Ia.
Heinemann, Paul Gustav, <i>a w</i>	S.B. (<i>u. of Chicago</i>) '04	Chicago
Heise, Carl Augustus, <i>a w</i>	<i>Winona hs.</i>	Alma, Wis.
Hendricks, Alfred Herdson, <i>a</i>	A.B. (<i>Fiske u.</i>) '04	Macon, Ga.
Hepburn, Jared Charles, <i>s</i>	Practitioner	Chicago
Hill, Isaac Everett, <i>s</i>	<i>u. of Colorado</i>	Grand Junction, Colo.
Hofmann, H., <i>w sp</i>	Junior c. (<i>u. of Chicago</i>)	Chicago
Hollister, John Chamberlain, <i>s</i>	Practitioner	Chicago
Holmes, Harriet, <i>a w sp</i>	A.B. (<i>Vassar c.</i>) '95	Chicago
Holmsen, Holm, <i>s</i>	<i>Drummons Gym. (Norway)</i>	Chicago
Horovitz, David Alfred, <i>s a w sp</i>	Senior c. (<i>u. of Chicago</i>)	Chicago
Horton, Jessie M., <i>a</i>	M.D. (<i>Rush Medical c.</i>) '04	Chicago
Hovde, Carl Herman, <i>a w sp</i>	A.B. (<i>Luther c.</i>) '04	Blair, Wis.
Howard, William James, <i>a w sp</i>	Junior c. (<i>u. of Chicago</i>)	Washington, D. C.
Howell, Katherine, <i>sp</i>	Senior c. (<i>u. of Chicago</i>)	Chicago
Hoy, Clinton Luman, <i>s w sp</i>	Ph.B. (<i>u. of Chicago</i>) '00	Woodstock
Hunt, Morton Leon, <i>s</i>	<i>Purdue u.</i>	Winchester, Ind.
Hutchinson, George Archibald, <i>a w sp</i>	Senior c. (<i>u. of Chicago</i>)	Capron
Jackson, Leila De Ette, <i>a w sp</i>	A.B. (<i>Ripon c.</i>) '95	Fond du Lac, Wis.
James, Harry Lorenzo, <i>w sp</i>	Junior c. (<i>u. of Chicago</i>)	Springfield
Johnston, Allan Perry, <i>a w sp</i>	S.B. (<i>u. of Chicago</i>) '05	Waupun, Wis.
Jones, Mabel, <i>s a w</i>	Junior c. (<i>u. of Chicago</i>)	Chicago
Jones, Robert Young, <i>s a w sp</i>	S.B. (<i>u. of Chicago</i>) '04	Lyons, Kan.
Jones, Thomas Almon, <i>s</i>	A.B. (<i>Kentucky State c.</i>) '00	Montpelier, Ky.
Katherman, Charles Augustus, <i>s a</i>	A.B. (<i>Kansas State c.</i>) '97; A.M. (<i>Ibid.</i>) '98	Lawrence, Kan.
Kauffman, Jesse Robinson, <i>a w sp</i>	S.B. (<i>u. of Chicago</i>) '05	Chicago
Kaufmann, Gustav L., <i>a w sp</i>	Senior c. (<i>u. of Chicago</i>)	Chicago
Kinne, John Baxter, <i>s a</i>	S.B. (<i>Fargo c.</i>) '03	Fargo, N. D.
Kinney, Lyle Cary, <i>a sp</i>	Senior c. (<i>u. of Chicago</i>)	Los Angeles, Cal.
Kirk, Edwin Garvey, <i>a w sp</i>	S.B. (<i>u. of Chicago</i>) '02	Lima, O.
Knapp, Bleeker J., <i>s</i>	Practitioner	Evansville, Ind.
Knudson, O. A., <i>s</i>	Unclassified (<i>u. of Chicago</i>)	Chicago
Koltinsky, Irvin Sunthimer, <i>sp</i>	Senior c. (<i>u. of Chicago</i>)	Owensboro, Ky.
Kristjanson, Hjordleifur T., <i>a w sp</i>	A.B. (<i>u. of North Dakota</i>) '03	Gardar, N. D.
Ladd, Daniel Martiss, <i>a w sp</i>	S.B. (<i>Kansas State Agricultural c.</i>)	Manhattan, Kan.
Lane, Michael A., <i>a w</i>	Senior c. (<i>u. of Chicago</i>)	Chicago
Lesemann, Frederick Joseph, <i>a w sp</i>	Senior c. (<i>u. of Chicago</i>)	Nashville
Levitas, Isaac Edward, <i>a w sp</i>	Junior c. (<i>u. of Chicago</i>)	Marinette, Wis.
Levitt, Clarence Henry, <i>s</i>	Senior c. (<i>u. of Chicago</i>)	Belvidere
Lewis, Edward James, <i>a</i>	Unclassified (<i>u. of Chicago</i>)	Milwaukee, Wis.
Lindeblad, Carl G., <i>a w sp</i>	A.B. (<i>Augustana c.</i>) '04	LaGrange
Linthicum, Porter Hodge, <i>s a w sp</i>	A.B. (<i>Yale u.</i>) '01	Evansville, Ind.
Lockwood, Chester Herbert, <i>a w sp</i>	Senior c. (<i>u. of Chicago</i>)	Wichita, Kan.
Logan, George Morrison, <i>s a w sp</i>	Junior c. (<i>u. of Chicago</i>)	Manhattan, Kan.
Long, William Hunt, <i>a w sp</i>	A.B. (<i>Butler c.</i>) '03	Indianapolis, Ind.
Longley, Jonas Rhodes, <i>s</i>	S.B. (<i>u. of Nebraska</i>) '02	North Platte, Neb.
Lord, Arthur Evarts, <i>a w sp</i>	Ph.B. (<i>u. of Chicago</i>) '04	Plano
Lundgren, Albert Theodore, <i>a w sp</i>	S.B. (<i>Knox c.</i>) '01	Galesburg
Manning, Isaac Hall, <i>s</i>	Special Student	Chapel Hill, N. C.
Manwaring, Wilfred Hamilton, <i>a w sp</i>	<i>u. of Michigan</i>	Winona, Mich.

NAME

PREVIOUS INSTITUTION

HOME ADDRESS

Marks, Benjamin Walters, <i>a w sp</i>	Senior c. (<i>u. of Chicago</i>)	Fennimore, Wis.
Marquette, George John, <i>a w sp</i>	A.B. (<i>u. of Wisconsin</i>) '04	Madison, Wis.
Marshall, John Albert, <i>a w</i>	Junior c. (<i>u. of Chicago</i>)	Chicago
May, Wiley Singleton, <i>s</i>	M.D. (<i>Georgia E. M. and S. c.</i>) '93	Gurdon, Ark.
McCampbell, Eugene Franklin, <i>a w sp</i>	Senior c. (<i>u. of Chicago</i>)	Marysville, O.
McCarty, Paul Dean, <i>s</i>	<i>La Porte hs.</i>	La Porte, Ind.
McClure, John Henry, <i>w</i>	<i>Rush Medical c.</i>	St. Paul, Minn.
McGuigan, Hugh, <i>s a w sp</i>	S.B. (<i>N. Dakota Agricultural c.</i>) '98	Fargo, N. D.
McMullen, Edwin Clare, <i>a w sp</i>	A.B. (<i>Indiana u.</i>) '04	Aurora, Ind.
Meents, Walter Howard, <i>s a w sp</i>	S.B. (<i>Northwestern u.</i>) '04	Ashkum
Mendel, Max Louis, <i>s a w</i>	S.B. (<i>u. of Chicago</i>) '04	Chicago
Merrill, Orlan Paul, <i>a</i>	<i>u. of Illinois</i>	Elgin
Meyer, J. H. Warren, <i>a w sp</i>	<i>La Porte hs.</i>	La Porte, Ind.
Miller, Ernest Wilson, <i>sp</i>	S.B. (<i>u. of Chicago</i>) '05	Chicago
Miller, George Enos, <i>w sp</i>	<i>Kenyon Military a.</i>	Chicago
Moloney, Fredrick Graham, <i>s a w sp</i>	Senior c. (<i>u. of Chicago</i>)	Ottawa
Moore, William Henry Hudson, <i>s</i>	S.B. (<i>Purdue u.</i>) '03	Lafayette, Ind.
Moorehead, Frederick Brown, <i>sp</i>	<i>Rush Medical c.</i>	Chicago
Morrison, Hugh Tucker, <i>w sp</i>	A.B. (<i>Drake u.</i>) '00	Springfield
Nance, Willis Orville, <i>s</i>	Practitioner	Chicago
Newberger, Charles, <i>s</i>	Junior c. (<i>u. of Chicago</i>)	Chicago
Nicholl, Roy Herbert, <i>a w sp</i>	Junior c. (<i>u. of Chicago</i>)	Des Moines, Ia.
Norris, Allen Anson, <i>s</i>	A.B. (<i>Indiana u.</i>) '02	Syracuse, Ind.
O'Connell, George Gansy, <i>a w sp</i>	Junior c. (<i>u. of Chicago</i>)	Marinette, Wis.
Omelvena, James Gibson, <i>s</i>	<i>Hanover c.</i>	Delphi, Ind.
Osborne, John Granville, <i>sp</i>	S.B. (<i>Bishop c.</i>) '03	Ennis, Tex.
Paulson, Nels Peter, <i>s a w sp</i>	<i>State Agricultural c., Utah</i>	Logan City, Utah
Peck, Wesley H., <i>s</i>	Practitioner	Oak Park
Perlstein, Samuel, <i>a</i>	Junior c. (<i>u. of Chicago</i>)	Chicago
Porter, John Lincoln, <i>s</i>	Special student	Chicago
Potter, Hollis Elmer, <i>s</i>	Senior c. (<i>u. of Chicago</i>)	Waupun, Wis.
Powell, Wade Hampton, <i>w sp</i>	Senior c. (<i>u. of Chicago</i>)	Texas
Pringle, Lewis Avery, <i>a w</i>	Ph.B. (<i>Iowa c.</i>) '04	Kellogg, Ia.
Quinn, Edmund Lennon, <i>s a w sp</i>	Senior c. (<i>u. of Chicago</i>)	Chicago
Ramsey, Paul Temple, <i>a w sp</i>	Junior c. (<i>u. of Chicago</i>)	Reedsburg, Wis.
Ranson, Stephen Walter, <i>a w sp</i>	S.B. (<i>u. of Chicago</i>) '02; S.M. (<i>Ibid.</i>) '03	Dodge Center, N. D.
Reddingius, William Gehardus, <i>w</i>	Junior c. (<i>u. of Chicago</i>)	Harrisburg, S. D.
Redmon, Andrew Jackson, <i>s</i>	<i>Indiana u.</i>	Peru, Ind.
Reque, Herman Andrew, <i>s</i>	A.B. (<i>Luther c.</i>) '94	Chicago
Reynolds, Hardin William, <i>s</i>	<i>Rush Medical c.</i>	Bristol, Tenn.
Riddle, Oscar, <i>w</i>	Graduate (<i>u. of Chicago</i>)	Chicago
Ridgely, Fred Demeril, <i>a</i>	S.B. (<i>Washington and Jefferson u.</i>) '04	Washington, Pa.
Rikli, Arthur Richard, <i>a w sp</i>	S.B. (<i>Northwestern c., Ind.</i>) '03	Murdock, Neb.
Riley, Floyd, <i>a w sp</i>	A.B. (<i>u. of Missouri</i>) '04	Kearney, Mo.
Roberg, Daniel Nathan, <i>a w sp</i>	Junior c. (<i>u. of Chicago</i>)	Chicago
Rogers, Nathaniel Curtis, <i>s a w sp</i>	Senior c. (<i>u. of Chicago</i>)	Newell, Ia.
Rogers, Ross, <i>sp</i>	Junior c. (<i>u. of Chicago</i>)	Newell, Ia.
Rollefson, Carl J., <i>s</i>	A.B. (<i>St. Olaf c.</i>) '90	Grand Forks, N. D.
Rosholt, Abbie Jens, <i>a w sp</i>	A.B. (<i>Luther c.</i>) '03	Rosholt, Wis.
Ross, Mary Sophia, <i>a w sp</i>	A.B. (<i>Dalhousie c.</i>) '04	Ross Corner, Can.

NAME	PREVIOUS INSTITUTION	HOME ADDRESS
Rowe, Lee Ballou, <i>a w sp</i>	Junior c. (<i>u. of Chicago</i>)	Brodhead, Wis.
Runyan, Herman Call, <i>s</i>	A.B. (<i>Indiana u.</i>) '03	Alexander, Ind.
Ryan, Lee Mathew, <i>s a w sp</i>	Senior c. (<i>u. of Chicago</i>)	Leavenworth, Kan.
Saam, John Gustav, <i>a w sp</i>	S.B. (<i>Lenox c.</i>) '00	Lansing, Ia.
Sadler, Lena Kellogg, <i>s</i>	Cooper Medical c.	Chicago
Saddler, William Samuel, <i>s</i>	Cooper Medical c.	Chicago
Sanbourn, Lura, <i>a</i>	Unclassified (<i>u. of Chicago</i>)	Chicago
Sartain, Charles Augustus, <i>w</i>	Junior c. (<i>u. of Chicago</i>)	Terre Haute, Ind.
Saylor, Herbert B., <i>a w sp</i>	Senior c. (<i>u. of Chicago</i>)	Pomeroy, Ia.
Scherer, Lewis Daniel, <i>a w sp</i>	Senior c. (<i>u. of Chicago</i>)	Chehalis, Wash.
Schilling, Wilber Henry, <i>a w sp</i>	S.B. (<i>Iowa c.</i>) '04	State Centre, Ia.
Scott, Garland Dix, <i>a w sp</i>	Junior c. (<i>u. of Chicago</i>)	Sullivan, Ind.
Scudder, Roy, <i>s</i>	A.B. (<i>Friends u.</i>) '03	Wichita, Kan.
Shaff, DeWitt Clinton, <i>s a w sp</i>	<i>Swarthmore c.</i>	Clinton, Ia.
Shaklee, Alfred Ogle, <i>a w sp</i>	S.B. (<i>u. of Chicago</i>) '99	Caldwell, O.
Shimer, William, <i>sp</i>	A.B. (<i>Butler c.</i>) '02	Wanamaker, Ind.
Simonds, Jesse Persons, <i>w sp</i>	A.B. (<i>Baylor u.</i>) '01	Kerens, Tex.
Sims, Harry Wilbur, <i>a w sp</i>	S.B. (<i>Muskingum c.</i>) '04	New Concord, O.
Smith, Adolph Belmont, <i>s</i>	S.B. (<i>u. of Wisconsin</i>) '03.	Brooklyn, Wis.
Speidell, William Charles, <i>a w sp</i>	A.B. (<i>u. of Washington</i>) '04	Seattle, Wash.
Speik, Frederick Adolph, <i>a w sp</i>	Senior c. (<i>u. of Chicago</i>)	Chicago
Spencer, Harry Stillman, <i>a w sp</i>	Senior c. (<i>u. of Chicago</i>)	Kankakee
Statler, Oliver Isaiah, <i>s</i>	S.B. (<i>Wilmington c.</i>)	Wilmington, O.
Stephens, F. C., <i>a</i>	Graduate (<i>u. of Chicago</i>)	Chicago
Straus, David Copperfield, <i>a w sp</i>	S.B. (<i>u. of Chicago</i>) '05	Chicago
Strauss, Alfred Adolph, <i>a w sp</i>	Senior c. (<i>u. of Chicago</i>)	Seattle, Wash.
St. Sure, Frank Adolph, <i>a w sp</i>	S.B. (<i>u. of Wisconsin</i>) '03	Madison, Wis.
Sumner, John True, <i>s a</i>	A.B. (<i>u. of Nebraska</i>) '99	Omaha, Neb.
Sunderland, L. E., <i>a</i>	A.B. (<i>Middlebury c.</i>) '04	Middlebury, Vt.
Sundwall, John, <i>s a w sp</i>	Ph.B. (<i>Central u. of Utah</i>) '01	Fairview, Utah.
Swift, Charles Henry, <i>a w sp</i>	A.B. (<i>u. of Chicago</i>) '03	Chicago
Takahashi, K., <i>a w sp</i>	Graduate (<i>u. of Chicago</i>)	Chicago
Tanner, Alvin Charles, <i>s a</i>	Senior c. (<i>u. of Chicago</i>)	Bridgeport, Mich.
Ten Broeck, Louis Leonard, <i>a w sp</i>	A.B. (<i>u. of Minnesota</i>) '98	Chicago
Terry, B. T., <i>a w sp</i>	Graduate (<i>u. of Chicago</i>)	Chicago
Terry, Oliver Perkins, <i>s</i>	S.B. (<i>Purdue u.</i>) '03	Lafayette, Ind.
Thomas, Hall Herbert, <i>s</i>	S.B. (<i>Iowa State c.</i>) '00	Decorah, Ia.
Thomas, Roy Eccles, <i>a</i>	S.B. (<i>Pomona c.</i>) '03	Phoenix, Ariz.
Thompson, Harold Benjamin, <i>s</i>	Senior c. (<i>u. of Chicago</i>)	Appleton, Wis.
Tonney, F. O., <i>a w</i>	Graduate (<i>u. of Chicago</i>)	Chicago
Tyree, Joseph Edgar, <i>a w sp</i>	A.B. (<i>u. of Oregon</i>)	Dillon, Mont.
Wakefield, Guy Freeman, <i>a w sp</i>	Senior c. (<i>u. of Chicago</i>)	West Salem, Wis.
Walker, Frank Church, <i>a w sp</i>	S.B. (<i>DePauw u.</i>) '04	Orleans, Ind.
Walker, Thomas Sanders, <i>s</i>	S.B. (<i>u. of Chicago</i>) '04	Riceville, Ia.
Wallace, Brice Russell, <i>a w sp</i>	S.B. (<i>Albany c.</i>) '04	Albany, Ore.
Walters, John J., <i>w</i>	Special student	Berlin, Can.
Ware, Harry Alexander, <i>s</i>	Practitioner	Chicago
Webster, Harry Elgin, <i>w sp</i>	<i>North Dixon hs.</i>	Dixon
Weinberger, Carl Frederick, <i>a w sp</i>	A.B. (<i>u. of Chicago</i>) '99	Blue Earth, Minn.
Wellington, Richard Howells, <i>s a</i>	Senior c. (<i>u. of Chicago</i>)	Hartwell, O.
Wheeler, Herbert Edward, <i>a</i>	Senior c. (<i>u. of Chicago</i>)	Grant Park

NAME

PREVIOUS INSTITUTION

HOME ADDRESS

White, Adeline Ranson, *w sp*
 Whitelaw, Henry Neil, *s*
 Whitman, Roscoe, *a w sp*
 Williams, Tom Alfred, *s*
 Winnick, Joseph Bernard, *a w sp*
 Winsor, Sanford Archibald, *s*
 Winternitz, Milton C., *s*
 Wood, Fred Webster, *s*
 Woodard, Otto Willis, *w sp*
 Wormley, Harry Rolph, *s*

S.B. (*u. of Wisconsin*) '99
 Senior c. (*u. of Chicago*)
 A.B. (*u. of Wisconsin*) '04
 Practitioner
 Senior c. (*u. of Chicago*)
 Senior c. (*u. of Chicago*)
Johns Hopkins u.
 Special student
 Junior c. (*u. of Chicago*)
 Graduate (*u. of Chicago*)

Hamilton, Mont.
 Kidder, Mo.
 Dodgeville, Wis.
 Edinburgh, Scotland
 Sheboygan, Wis.
 Neponset
 Baltimore, Md.
 Chicago
 Grinnell, Ia.
 Shabbona

MEN — 241

WOMEN — 12

TOTAL — 253

JUNIOR CLASS

NAME

HOME ADDRESS

NAME

HOME ADDRESS

Adams, Orville Louis, A.B. Colfax, Wash.
 Anderson, Robert Adolph, S.B. Dell Rapids, S. D.
 Ayres, Lloyd Clark Chicago
 Bair, Samuel W. Nappanee, Ind.
 Batty, Arthur Joseph, A.B. Glen, Wis.
 Baxter, Leroy Worth, A.B. Columbus, Kan.
 Beer, James Anderson Columbus, O.
 Berry, Harry Reber Canal Winchester, O.
 Bell, Lester Boman Osceola, Wis.
 Bell, Robert H. Carlinville
 Blakey, Halbert Brush Union Grovel, Wis.
 Blomer, Joseph Henry, A.B., A.M. Quincy
 Blything, J. D. Chicago
 Boggs, Nathan Richland Center, Wis.
 Boughton, Thomas Harris Chicago
 Boynton, Vincent Russell Waukegan
 Breyfogle, Herbert Arthur, A.B. Delaware, O.
 Brown, Orville Harry, A.B. Sabetha, Kan.
 Brubaker, Ora George Russiaville, Ind.
 Burns, Rush Leslie, S.B. Oakfield, Wis.
 Christian, Edward F. Merrill, Wis.
 Churchill, James Forrest Roseville
 Dalton, Ernest Charles St. Helena, Ore.
 Davies, John G. Indianola, Ia.
 Decker, Rudolph F. LaMoille
 Dewey, Lorenzo Simeon Kansas City, Mo.
 Earle, James Richard, A.B. Lakemont, N. Y.
 Epplen, Frederick Omaha, Neb.
 Evans, Evan Strak, Ph.B. Hampton, Ia.

Fehlman, W. Edward Beemer, Neb.
 Fidler, Charles Rensselaer, Ind.
 Fischman, Egon Walter Chicago
 Fortney, Gehard Olans, B.S. Viroqua, Wis.
 Frances, Horace Montague Chicago
 Gardner, Miriam Pasadena, Cal.
 Goodrich, George Erastus Chicago
 Gowan, Charles Homer, S.B. Los Angeles, Cal.
 Gray, Walter Kempston, A.B. Milwaukee, Wis.
 Halsey, Henry Allen Phoenix, Ariz.
 Hall, David Connolly Boston, Mass.
 Hamburger Walter Wile, S.B. Chicago
 Hanson, Daisy M. Lincoln, Neb.
 Harger, John Ross Beatrice, Neb.
 Hays, A. D. Pittsburg, Kan.
 Heise, Carl Augustus Alma, Wis.
 Holmsen, Holm Chicago
 Hopper, Claire D. Springfield, Ia.
 Hoy, Clinton Lyman Woodstock
 Humphrey, Ira Karr Cordova
 Hunt, Morton Leon Winchester, Ind.
 Johnston, Allan Perry Waupun, Wis.
 Jones, Thomas Alman, A.B. Montpelier, Ky.
 Katherman, Charles Augustus, A.B., A.M. Lawrence, Kan.
 Kinne, John Baxter, S.B. Fargo, N. D.
 Kristjansen, H. T. Gardar, N. D.
 Kendall, Guy Mumford Wichita, Kan.
 Lewis, Edward James Milwaukee, Wis.
 Lincoln, Mary Cain, Ph.B. Chicago

NAME	HOME ADDRESS	NAME	HOME ADDRESS
Longley, Jonas Rhodes, S.B.	North Platte, Neb.	Rizer, R. I.	Clinton, Ia.
McCartey, Paul Dean	La Porte, Ind.	Rollefson, Carl J., A.B.	Grand Forks, N. D.
McKesson, Elmer Isaac	Walkerton, Ind.	Rundle, Walter Gustavus, S.B.	Apache, Okla.
McKinley, Alexander Daniel, S.B.	Clermont, Ia.	Runyan, Herman Call, A.B.	Alexander, Ind.
McMartin, Charles, Ph.B.	Des Moines, Ia.	Russell, Claude Venard	Portage, Wis.
Maver, Maria Blair	Chicago	Sandberg, Charles Theodor	Ishpeming, Mich.
Mellinger, H. V.	Chicago	Scott, Lee Osborn, A.B.	New Albany, Ind.
Mertz, Ezra F.	Ogden, Ia.	Smith, Adolph Belmont, B.S.	Brooklyn, Wis.
Metcalf, Frank Woodward	Dodgeville, Wis.	Spiegelberg, Edward Henry	Boscobel, Wis.
Miller, Ernest Wilson	Chicago	Spurgin, A. M.	Dallas, Tex.
Mock, Harry Edgar	Muncie, Ind.	Starnes, Brand	Ashville, N. C.
Moore, William Henry Hudson, S.B.	Lafayette, Ind.	Statler, Oliver Isaiah, S.B.	Wilmington, O.
Moorehead, Fred Brown, D.D.S.	Chicago	Stiles, Lee Crosby	Austinburg, O.
Murnan, Harry Allen	Lewis, Ia.	Stocking, Fred Foster	Clarendon, Tex.
Museus, H. Benjamin, Ph.G.	Chetek, Wis.	Sumner, John True, A.B.	Omaha, Neb.
Norris, Allen Anson, A.B.	Syracuse, Ind.	Thomas, Hall Herbert, S.B.	Decorah, Ia.
Neilson, Dr. Charles Hugh, A.B., A.M., Ph.D.	Chicago	Thompson, Harold Benjamin	Appleton, Wis.
Oarby, E. J.	Chicago	Thomas, Roy Eccles, B.S.	Phoenix, Ariz.
Omelvena, James Gibson	Delphi, Ind.	Tussing, Perry Irwin	Chicago
Palmer, Earl	Logansport, Ind.	Walker, Thomas Samuel	Riceville, Ia.
Perlstein, Samuel	Chicago	Waterhouse, Alfred Herbert,	Pasadena, Cal.
Porteus, R. W.	West La Fayette, O.	Wellington, Richard Howells	Hartwell, O.
Ransom, Stephen Walter, S.B.	Dodge Center, Minn.	Wheelock, Warren Overton, S.B.	McComb City, Miss.
Redmond, Thomas	Deerfield, Ind.	Whitacre, Thomas Oleanus	Bowling Green, O.
Rehling, Charles Frederick	Ft. Wayne, Ind.	Whitelaw, Henry Neill	Kidder, Mo.
Reque, Herman Andrew, A.B.	Chicago	Williams, Reuben Worrell	Bloomington
		Wilson, Thomas M.	Toronto, Can.
		Winsor, Sanford Archibald	Neponset
		Wormley, Harry R.	Shabbour

SENIOR CLASS

NAME	HOME ADDRESS	NAME	HOME ADDRESS
Adams, John Francis	Groton, S. D.	Boslough, Arthur William	Storm Lake, Ia.
Allin, Frank Wesley, B.S.	Coffeyville, Kan.	Bradley, William W.	Decatur, Mich.
Allison, Otis Wood	State Line, Ind.	Braude, Morris	Chicago
Autrey, Alfred Ranson, A.B.	Latania, Miss.	Brown, Raymond Samuel	Atlantic, Ia.
Badger, Paul Raymond	Toledo, O.	Buchsbaum, Maurice, S.B.	Chicago
Baer, Joseph Louis, B.S., M.S.	Chicago	Berg, S. A.	Granite Falls, Minn.
Bartlett, John Donnington, A.B.	Galesburg	Castle, Harry Edward	Hubbard, Minn.
Beaton, Lindsay Alexander, S.B.	Chicago	Castle, Stanly	Springfield
Bendixen, Peter Alfred, S.B.	Gladbrook, Ia.	Clay, Harry Elwin	Pomona, Cal.
Benson, Gideon H., S.B.	Richland Center, Wis.	Corkery, John Ripley	Toledo, O.
Best, Charles Lorton, A.B.	Freeport	Cruikshank, Roswell Dwight,	
Boose, William Rudolph, S.B.	Falls City, Neb.	Ph.B.	Humboldt, Ia.

NAME	HOME ADDRESS	NAME	HOME ADDRESS
Curtis, Arthur Hale, S.B.	Madison, Wis.	Lowe, Ausby Lyman, S.B.	Robinson
DeLong, Charles Alanson, A.B.	Montour, Ia.	Ludden, Homer Dexter	Boscobel, Wis.
Dick, George Fredrick	Ft. Wayne, Ind.	Lynch, Matthew John, S.B.	Madison, Wis.
Edwards, Hugh Jonas, A.B.	Cambria, Wis.	McClure, John Howard	St. Paul, Minn.
Epley, Otis Hoyt	New Richmond, Wis.	McClusky, Otto Wilbur	Traverse City, Mich.
Fairchild, James Henry, A.B.	Riverside, Cal.	McCord, Frances	Chicago
Fowler, Alfred Hugh, A.B.	Chicago	McCumber, Arthur Irving	Lewiston
Freytag, Charles Fred	Reynolds	McCumber, Clarence Nicholas	Lewiston
Fox, Galen Adis	Durand, Wis.	McCurdy, Edgar Henry, A.B.	Waterville, Me.
Gleysteen, Richard J., Ph.B.	Alton, Ia.	McKenna, Charles Morgan	Platteville, Wis.
Goheen, Robert Harold, A.B.	Wooster, O.	Mackenzie, Wellis S.	Adrian, Mich.
Hale, David Jones	Benton Harbor, Mich.	Mackintosh, James Atwood	Flint, Mich.
Halperin, George	Chicago	Marvel, William Justin	Waynesville, Ind.
Hanley, Erestus Talbot, S.B.	Prairie Creek, Ind.	Mason, Stephen Coddington, Jr., A.B.	Chicago
Harwood, Charles B., A.B.	Wattsburg, Pa.	Mattox, Ernest L., A.B.	Terre Haute, Ind.
Hays, Woodward Harris	Albion, Ind.	Melaas, Wilbur Guy	Houghton, Wis.
Hawley, Frank Stacy	Alpha	Menzies, Robert Campbell	Rock Prairie, Wis.
Heaney, Noble Sproat, A.B.	Quincy	Mosher, George Warner, L.B., S.B.	Prophetstown
Heinen, John Henry, S.B.	Ambia, Ind.	Murdock, Harry Dale, S.B.	Broadhead, Wis.
Hill, James Charlesworth, A.B.	Newton, Ia.	Myers, Jacob	Chicago
Holmes Bayard, Jr., A.B.	Chicago	Neher, Edwin Manson, A.B., S.B.	Rossville, Ind.
Hood, Mary E.	Sioux City, Ia.	O'Brien, Edward Joseph	Chicago
Hook, Harriet Anna	Chicago	O'Leary, Austin Joseph	Negaunee, Mich.
Hoon, Arthur Samuel	Dixon	Oliver, Alfred Shelton, Jr., A.B.	Elverton, Ga.
Howell, Emmett James	Fish Haven, Idaho	Olsen, Martin Ingeman, A.B.	Hersher
Hunter, Charles Dana, S.B.	Merrill, Wis.	Ostling, Carl August	Des Moines, Ia.
Ingbert, Charles Emerson, A.B., Ph.D.	Chicago	Oyen, Albert Nelson, A.B.	Chicago
Ivec, Marten J.	Cold Springs, Minn.	Padgett, Everett Ervin	Carlisle, Ind.
Jacobs, Wilhelmina H., S.B.	Chicago	Perry, Wilson James	Melvin
Jeffreys, Oliver Anderson	Weiser, Idaho	Purcell, Albert Charles	Streator
Johnson, Arthur Edward	Davidson, Mich.	Quist, Frank Julius	Stromberg, Neb.
Johnstone, Oscar Percy, Ph.B., S.M.	Van Cleve, Ia.	Rathjé, Fred Conrad	Chicago
Jongeward, Albert C.	Orange City, Ia.	Reed, Albert Earl	Larned, Kan.
Jungels, William Witry	Dubuque, Ia.	Ritchey, Romney Moore, A.B.	Portage City, Wis.
Keech, Roy Kneale	Oxford Junction, Ia.	Rothrock, Wilburn Joseph, A.B.	Lawrence, Kan.
Kirby, George Wightman	Galesburg, Mich.	Ruegnitz, Louis Herman	Chicago
Kitzing, Frederick Ferd	Halle a. S., Germany	Reynolds, Hardin Williams, S.B.	Bristol, Tenn.
Klein, Sidney, S.B., S.M.	Chicago	Salamson, Max Jason	Chicago
Klick, John Joseph	La Crosse, Wis.	Sauthoff, August, S.B.	Madison, Wis.
Kloppsch, Clara Frances	Michigan City, Ind.	Sawyer, Carl Walker	Marion, O.
Knox, James McBryde, Ph.B.	Cedar Rapids, Ia.	Schoemaker, Daniel M., S.B.	Muscataine, Ia.
Krahn, Adolph John	Huilsburg, Wis.	Scholler, Alphonse F.	Ironwood, Mich.
Kroesch, Theodore	Lorraine, Kan.	Schwengel, William Henry	Aurora
Krogh, Clarence Alfred	Mt. Horeb, Wis.	Senn, George, S.B., S.M.	Oshkosh, Wis.
Kuhlmann, August	Melrose, Minn.	Sensenich, Roscoe Lloyd	Wakarusa, Ind.
Lanes, George Albert	Blackburn, Okla.	Sloane, Harry Francis	Buena Park, Cal.
Larson, Leonard Antonius, A.B.	Montevideo, Minn.	Shanklin, Robert Clarence, S.B.	Frankfort, Ind.
Leete, Herbert Nelson, S.B., Ph.B.	Sparta, Wis.	Shirley, Wayne McKnight, A.B.	Shoals, Ind.
Lindorff, Oscar William	New Windsor		

